TOSHIBA

SERVICE MANUAL

LCD Color Television

32C3002P Ver. 1.02

This model is classified as a green product (*1), as indicated by the underlined serial number. This Service Manual describes replacement parts for the green product. When repairing this green product, use the part(s) described in this manual and lead-free solder (*2).
For (*1) and (*2), refer to **GREEN PRODUCT PROCUREMENT** and **LEAD-FREE SOLDER**.

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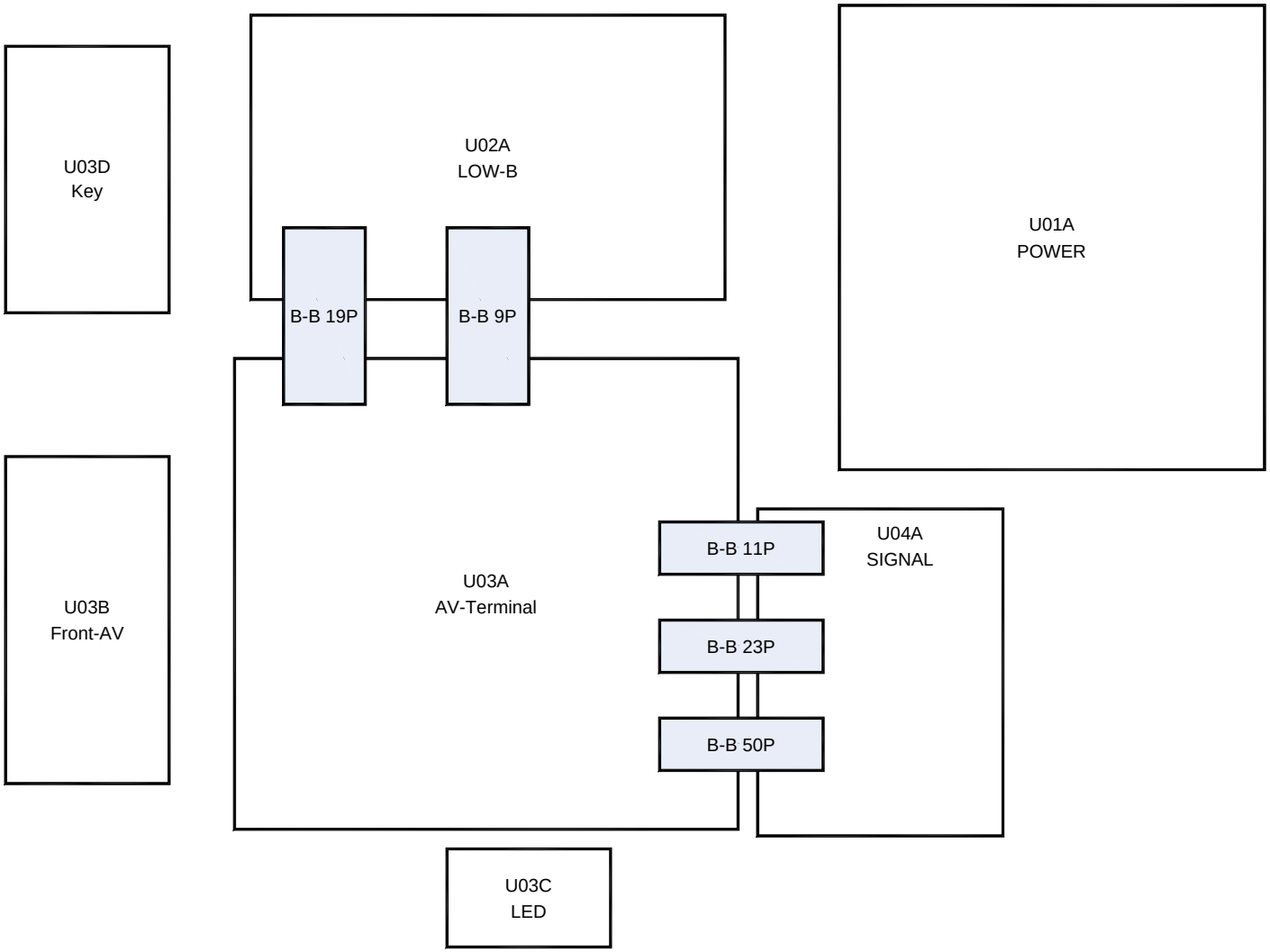
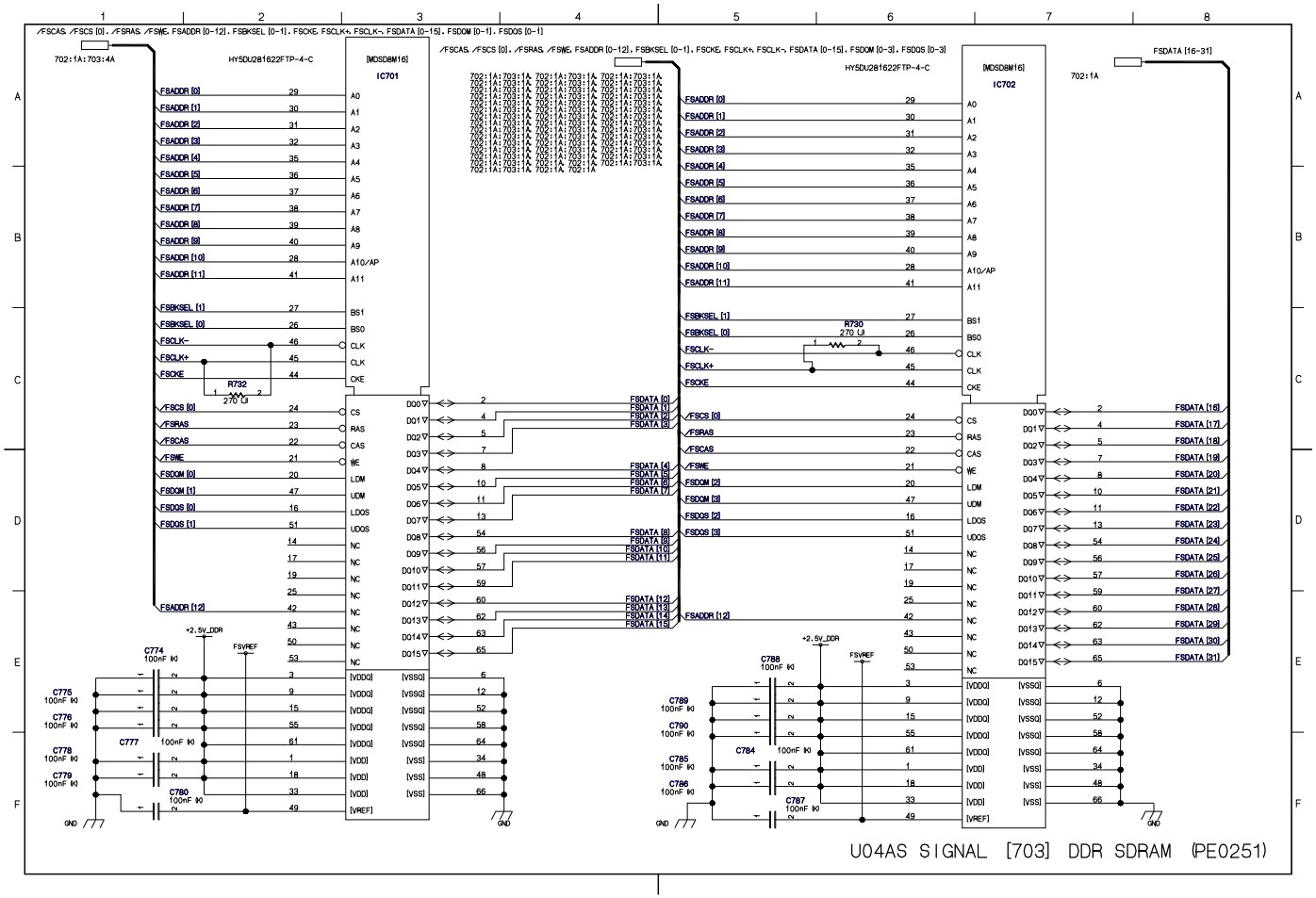
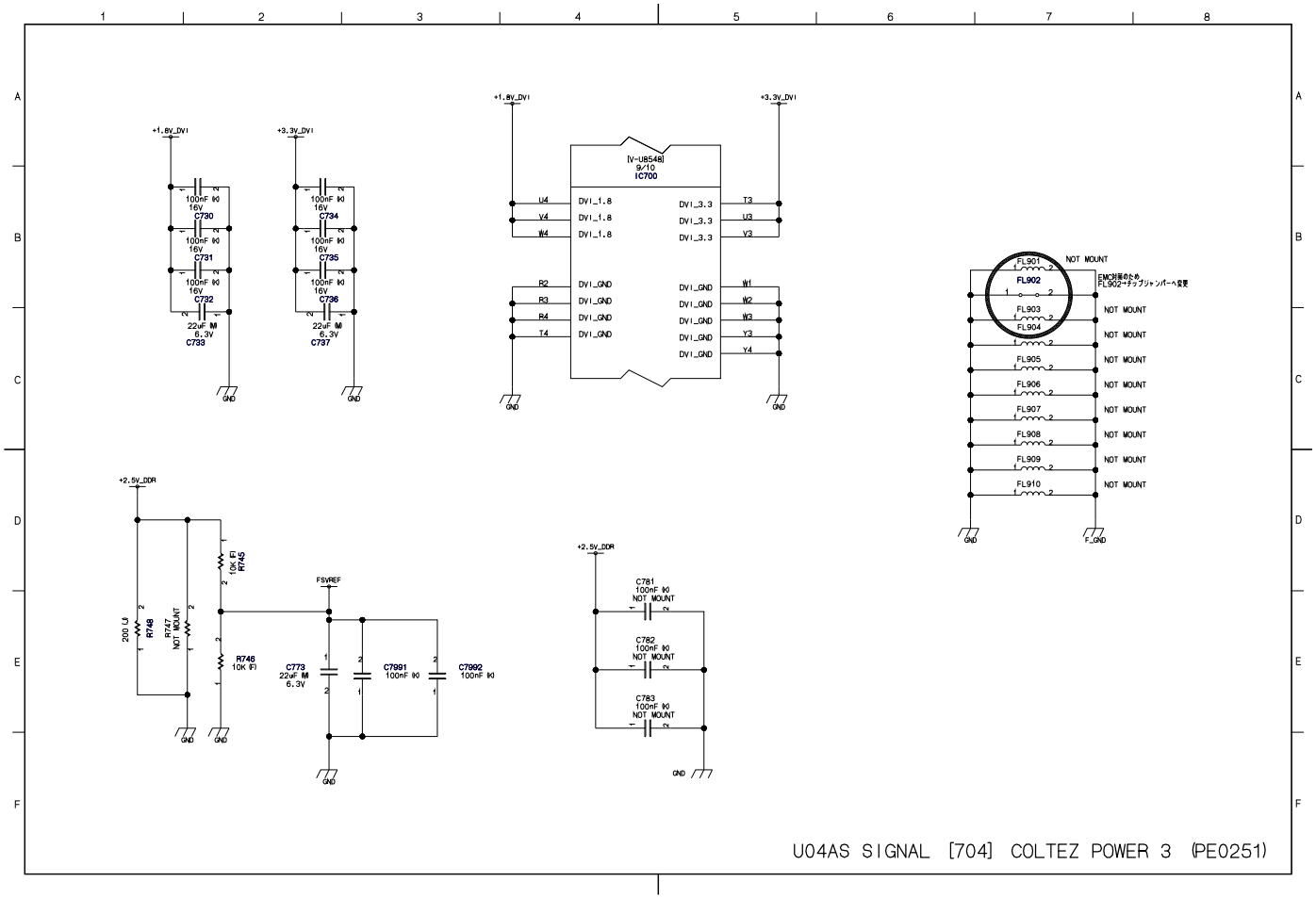
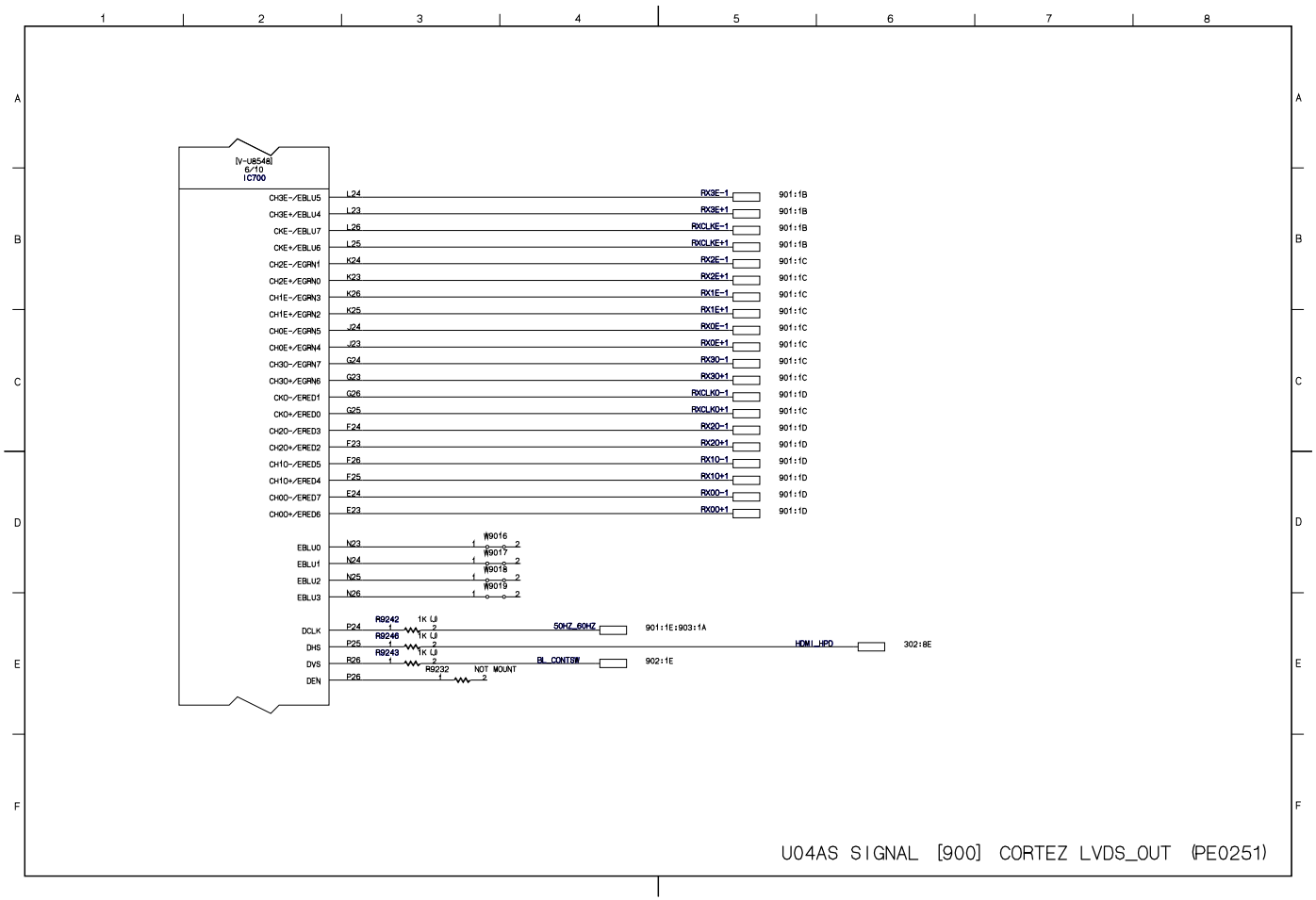

U03D
Key
U02A
LOW-B
B-B 19P
B-B 9P
U01A
POWER
U03B
Front-AV
U03A
AV-Terminal
B-B 11P
U04A
SIGNAL
B-B 23P
B-B 50P
U03C
LED

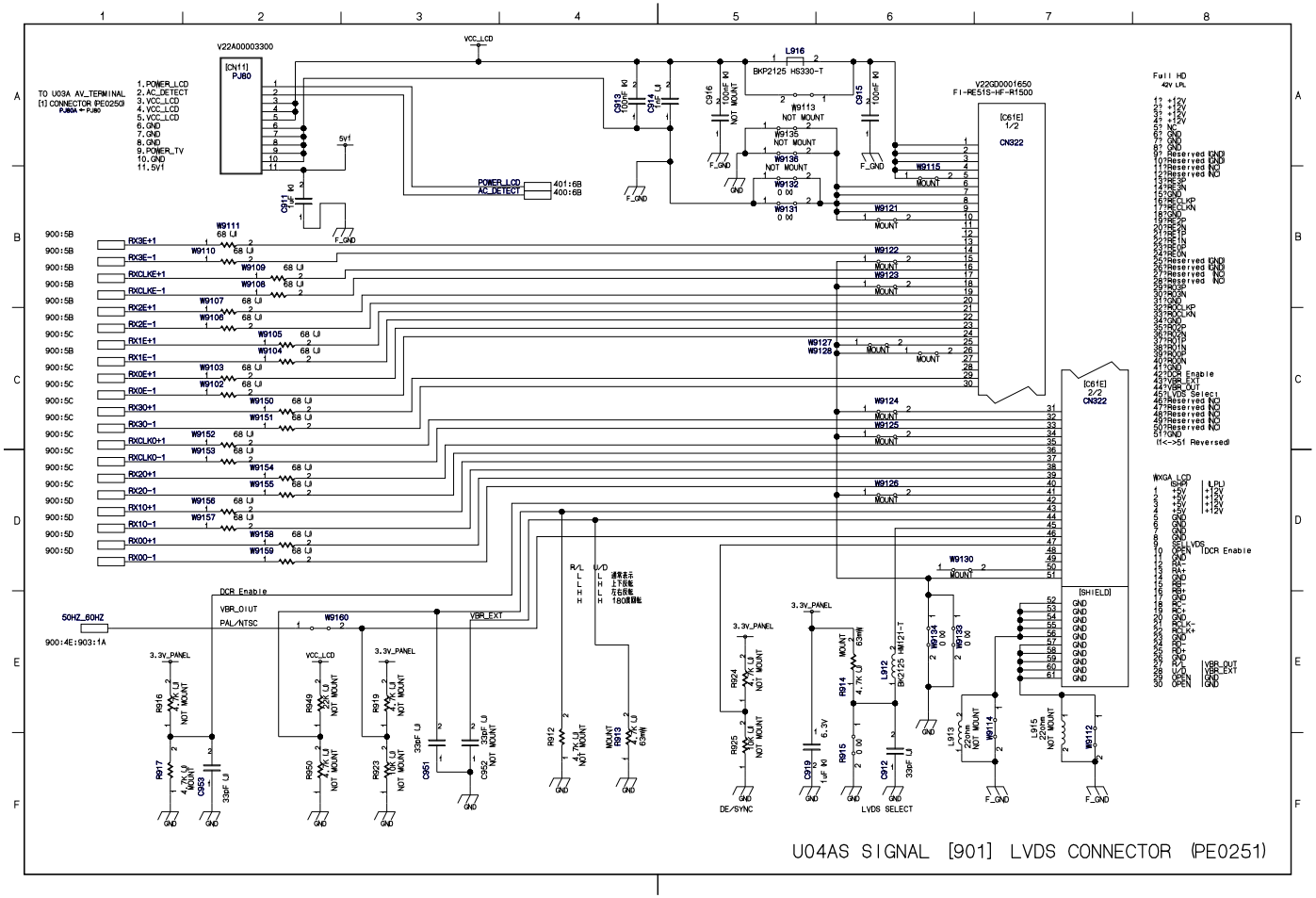

/FSCAS, /FSCS [0], /FSRAS, /FSWE, FSADDR [0-12], FSBKSEL [0-1], FSCKE, FSCLK+, FSCLK-, FSDATA [0-15], FSDQM [0-1], FSDQS [0-1]
HY5DU281622FTP-4-C
[MDSDRM16]
IC701
IC702
R732
270 Ω
R730
270 Ω
+2.5V_DDR
FSVREF
C774
C775
C776
C777
C778
C779
C780
C784
C785
C786
C787
C788
C789
C790
100nF
GND
FSDATA [16-31]
U04AS SIGNAL [703] DDR SDRAM (PE0251)



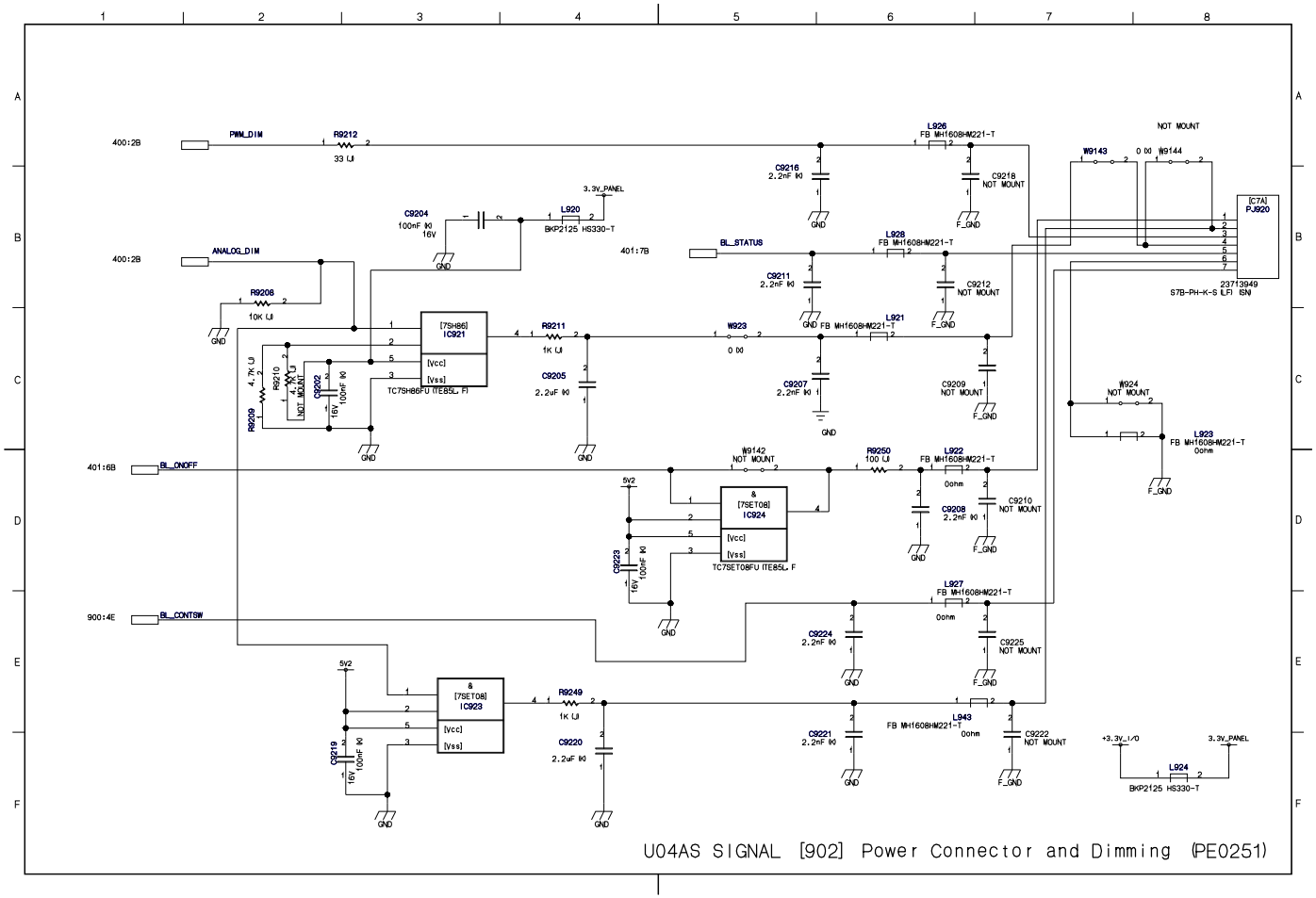
U04AS SIGNAL [704] COLTEZ POWER 3 (PE0251)

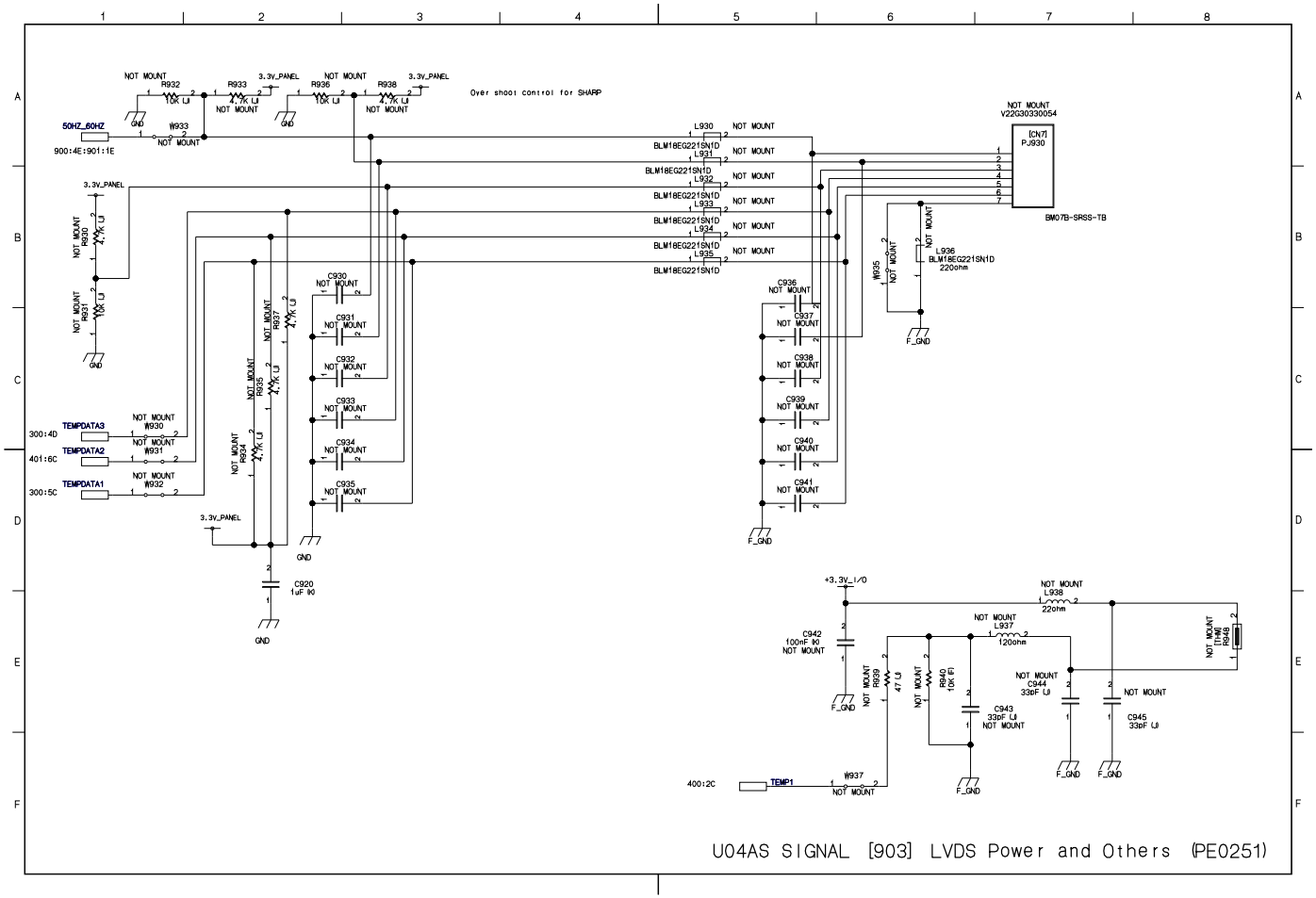


U04AS SIGNAL [900] CORTEZ LVDS_OUT (PE0251)

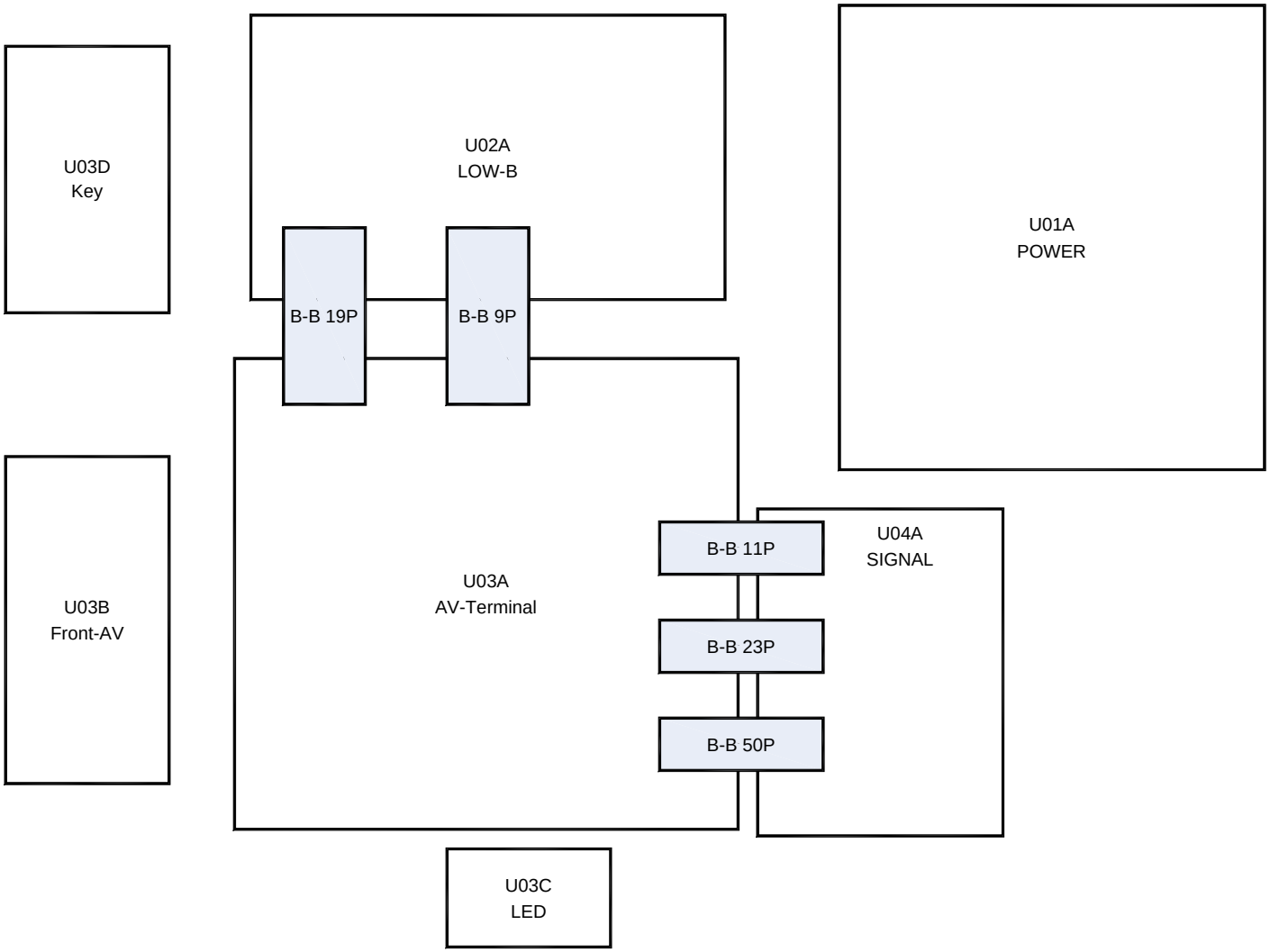


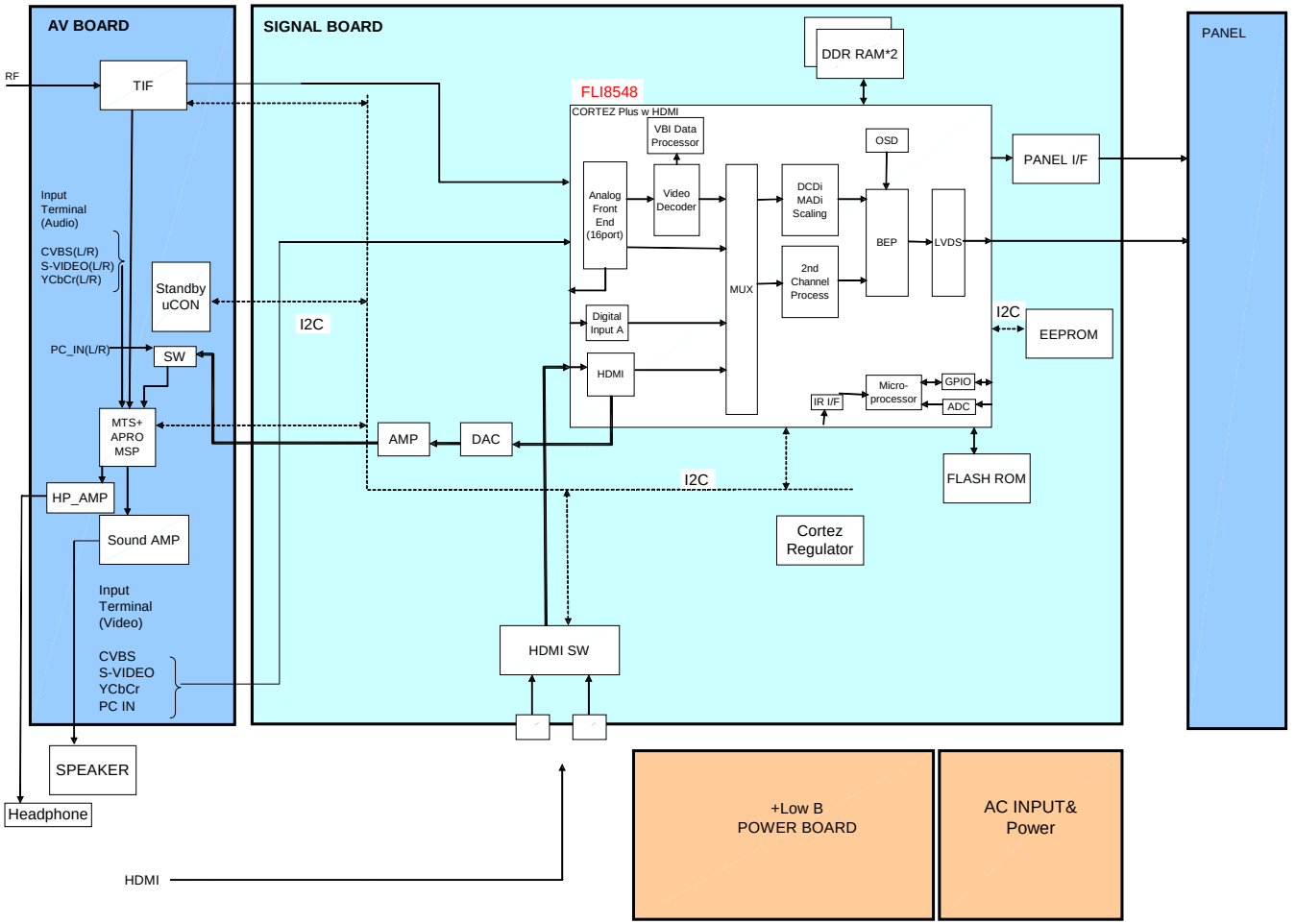
U04AS SIGNAL [901] LVDS CONNECTOR (PE0251)

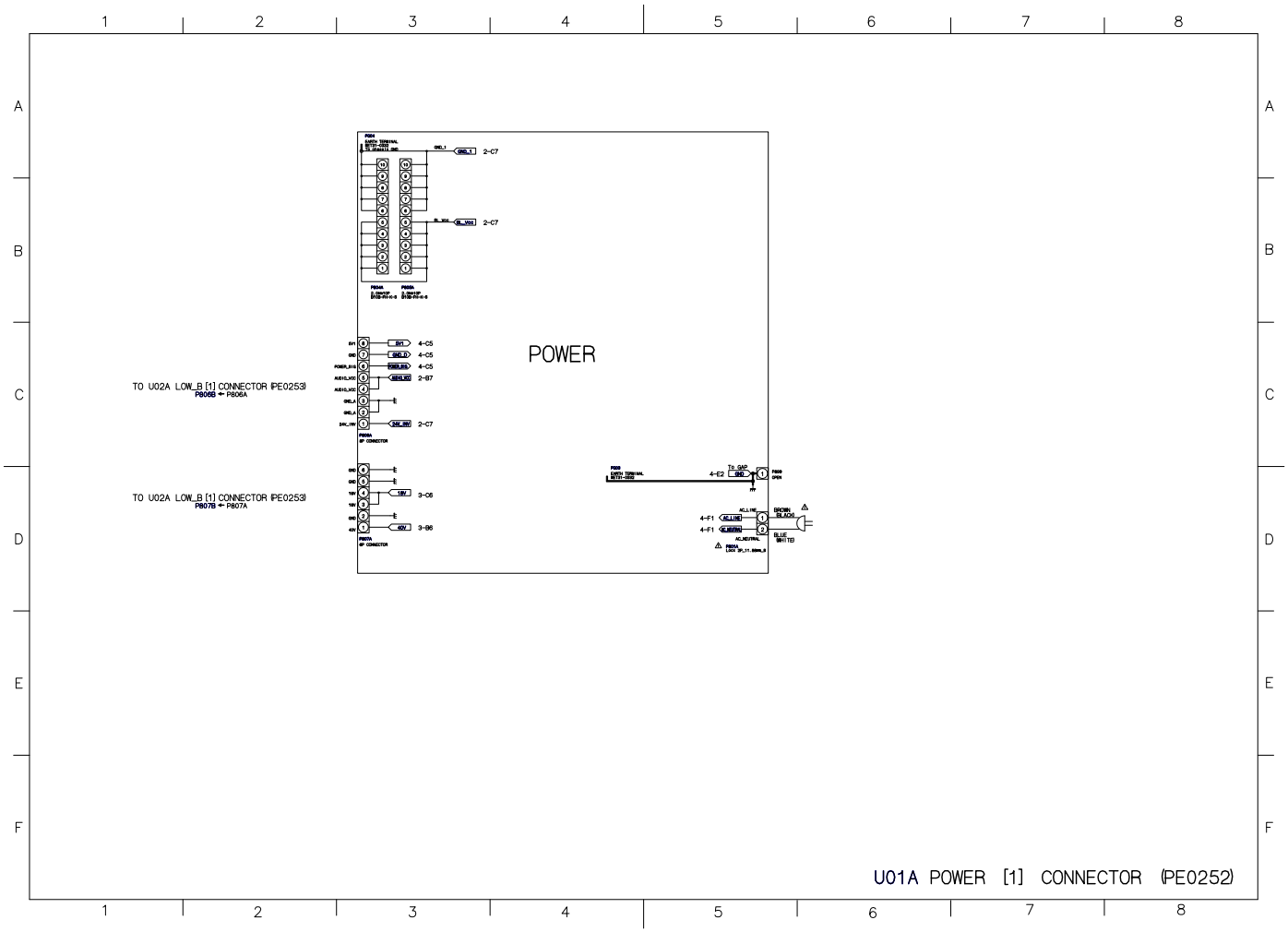

PWM_DIM
R9212
33 Ω
400:2B
ANALOG_DIM
400:2B
R9208
10K Ω
C9204
100nF ㎑
16V
L920
BKP2125 HS330-T
3.3V_PANEL
L926
FB MH1608HM221-T
C9216
2.2nF ㎑
C9218
NOT MOUNT
W9143
0 Ω
W9144
NOT MOUNT
[C7A]
PJ920
23713949
S7B-PH-K-S (LF) (SN)
BL_STATUS
401:7B
L928
FB MH1608HM221-T
C9211
2.2nF ㎑
C9212
NOT MOUNT
[7SH86]
IC921
[Vcc]
[Vss]
TC7SH86FU (TE85L, F)
R9211
1K Ω
W923
0 Ω
L921
FB MH1608HM221-T
C9207
2.2nF ㎑
C9209
NOT MOUNT
R9210
4.7K Ω
R9209
4.7K Ω
NOT MOUNT
C9202
100nF ㎑
16V
C9205
2.2uF ㎑
W924
NOT MOUNT
L923
FB MH1608HM221-T
0ohm
401:6B
BL_ONOFF
W9142
NOT MOUNT
R9250
100 Ω
L922
FB MH1608HM221-T
0ohm
5V2
&
[7SET08]
IC924
[Vcc]
[Vss]
TC7SET08FU (TE85L, F
C9208
2.2nF ㎑
C9210
NOT MOUNT
C9223
100nF ㎑
16V
L927
FB MH1608HM221-T
0ohm
900:4E
BL_CONTSW
C9224
2.2nF ㎑
C9225
NOT MOUNT
5V2
&
[7SET08]
IC923
[Vcc]
[Vss]
R9249
1K Ω
C9219
100nF ㎑
16V
C9220
2.2uF ㎑
C9221
2.2nF ㎑
L943
FB MH1608HM221-T
0ohm
C9222
NOT MOUNT
+3.3V_I/O
3.3V_PANEL
L924
BKP2125 HS330-T
GND
F_GND
U04AS SIGNAL [902] Power Connector and Dimming (PE0251)

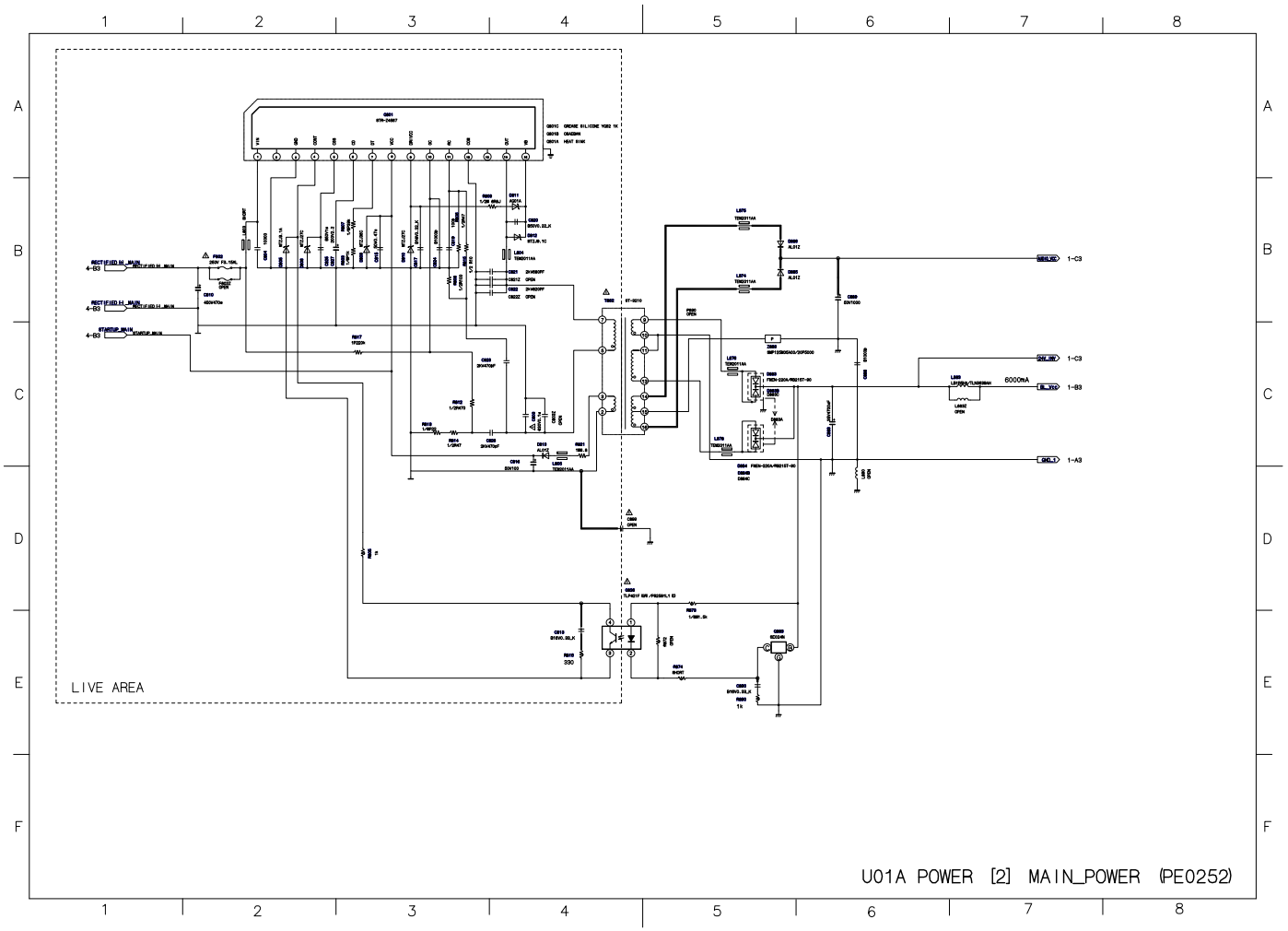


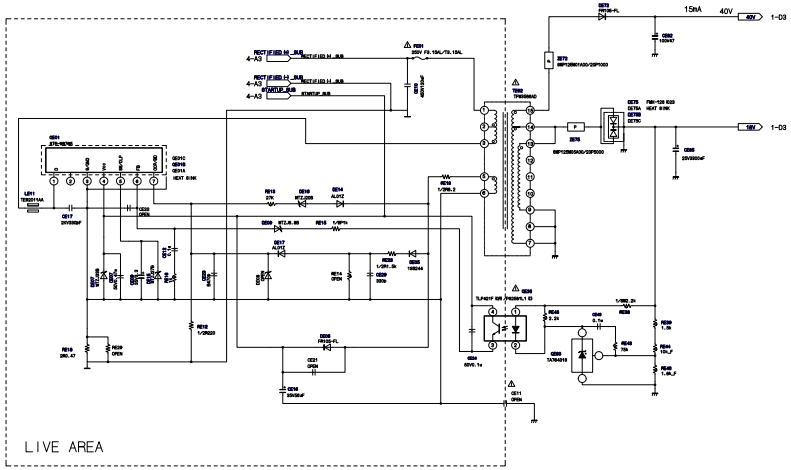
U04AS SIGNAL [903] LVDS Power and Others (PE0251)


U03D
Key
U02A
LOW-B
B-B 19P
B-B 9P
U01A
POWER
U03B
Front-AV
U03A
AV-Terminal
B-B 11P
U04A
SIGNAL
B-B 23P
B-B 50P
U03C
LED

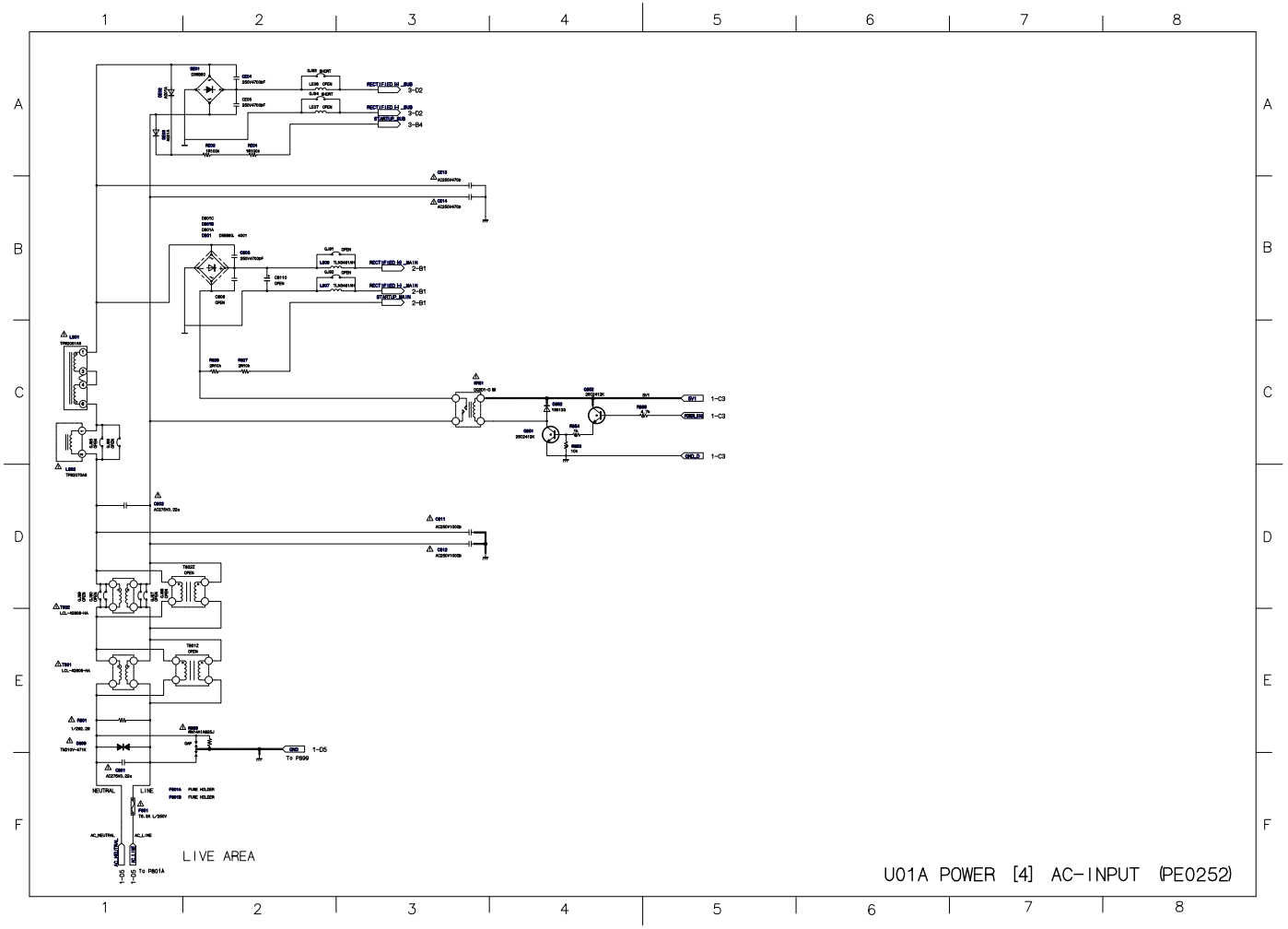

AV BOARD
SIGNAL BOARD
PANEL
RF
TIF
FLI8548
CORTEZ Plus w HDMI
DDR RAM*2
VBI Data Processor
OSD
PANEL I/F
Input Terminal (Audio)
CVBS(L/R)
S-VIDEO(L/R)
YCbCr(L/R)
Analog Front End (16port)
Video Decoder
MUX
DCDi MADi Scaling
2nd Channel Process
BEP
LVDS
Standby uCON
I2C
Digital Input A
HDMI
I2C
EEPROM
PC_IN(L/R)
SW
Micro-processor
GPIO
ADC
IR I/F
MTS+ APRO MSP
AMP
DAC
FLASH ROM
I2C
HP_AMP
Sound AMP
Cortez Regulator
Input Terminal (Video)
CVBS
S-VIDEO
YCbCr
PC IN
HDMI SW
SPEAKER
Headphone
HDMI
+Low B POWER BOARD
AC INPUT& Power

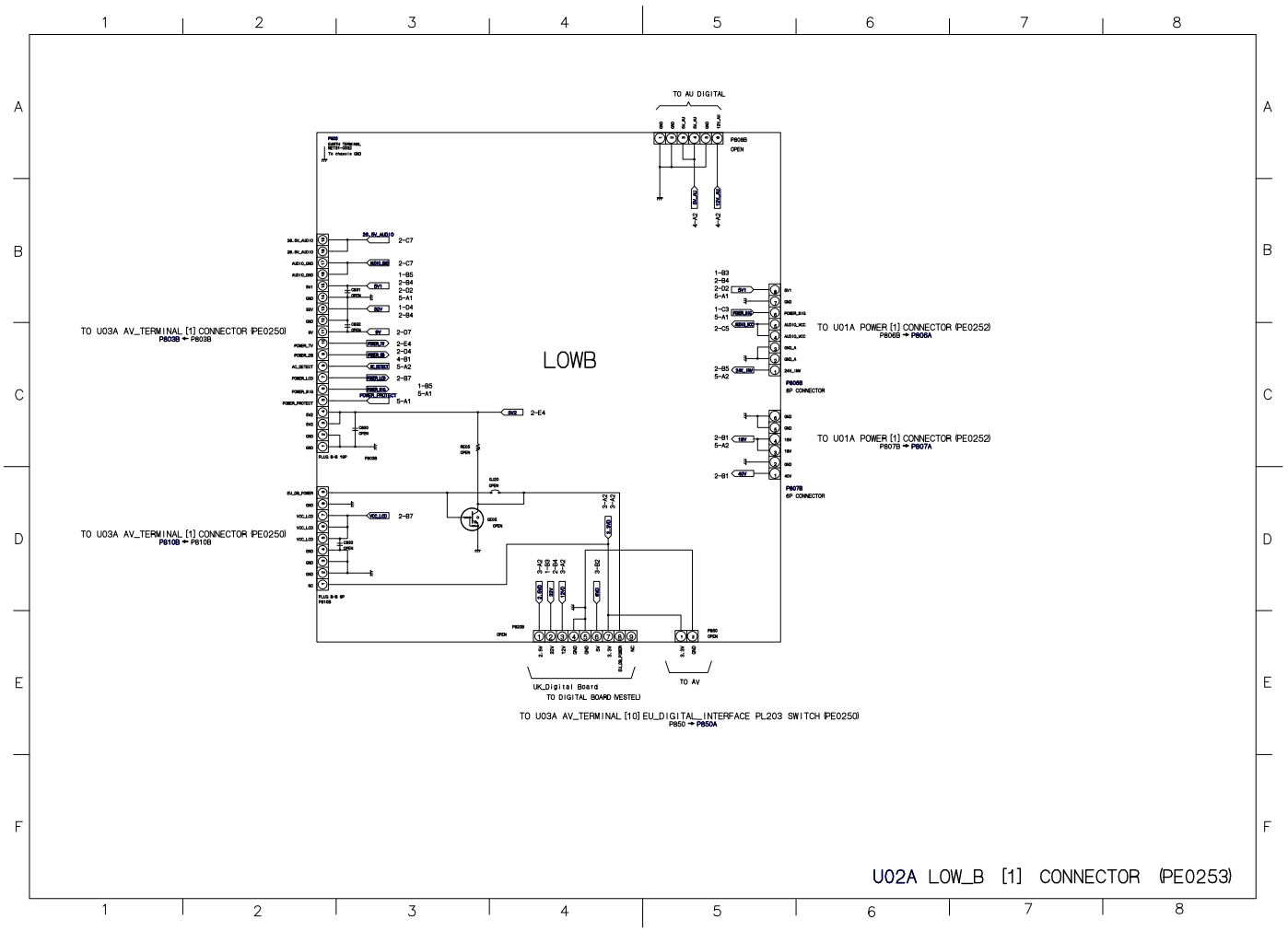

POWER
TO U02A LOW_B [1] CONNECTOR (PE0253)
P806B ← P806A
TO U02A LOW_B [1] CONNECTOR (PE0253)
P807B ← P807A
To GND
U01A POWER [1] CONNECTOR (PE0252)


LIVE AREA
6000mA
U01A POWER [2] MAIN_POWER (PE0252)

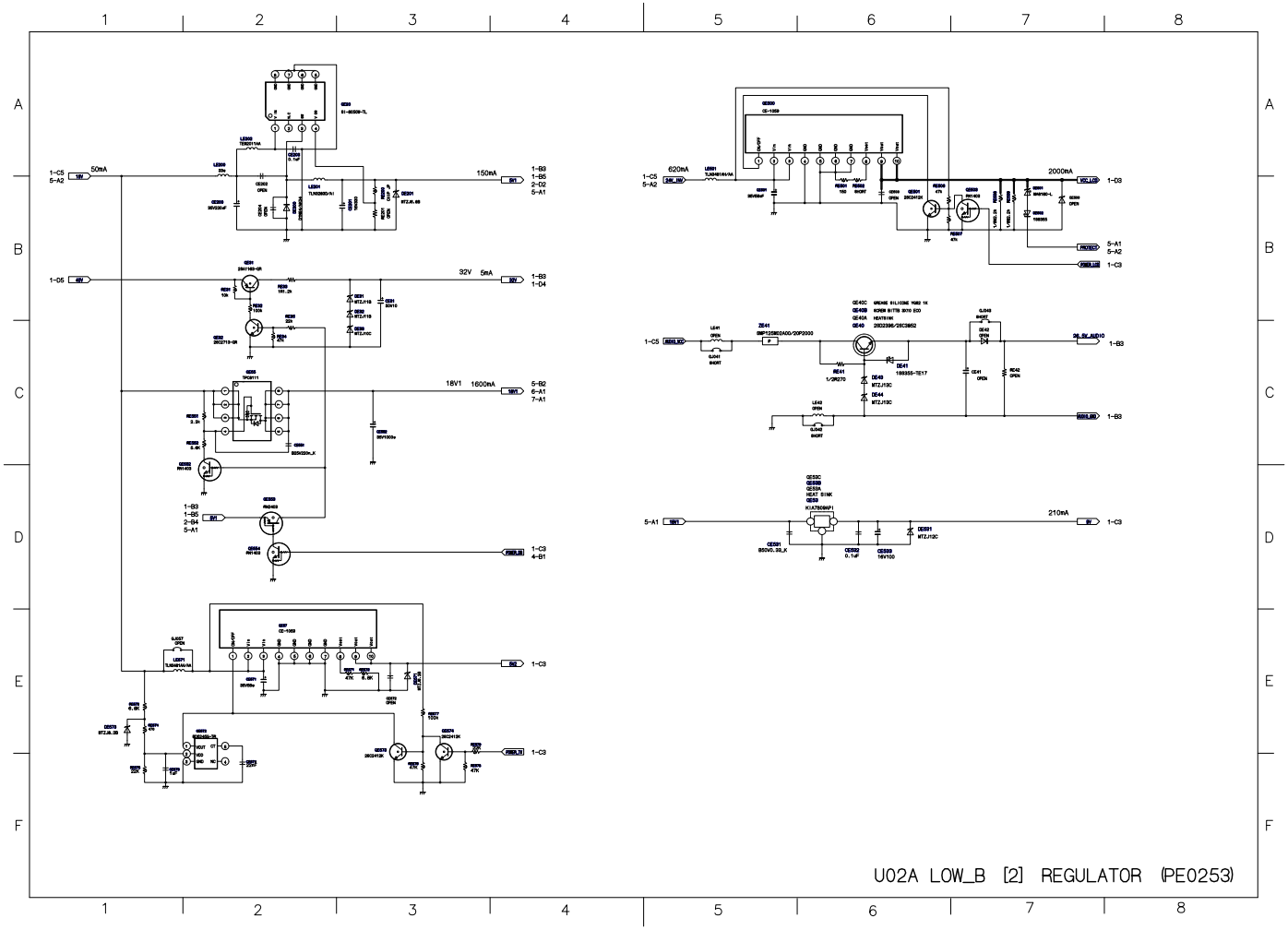


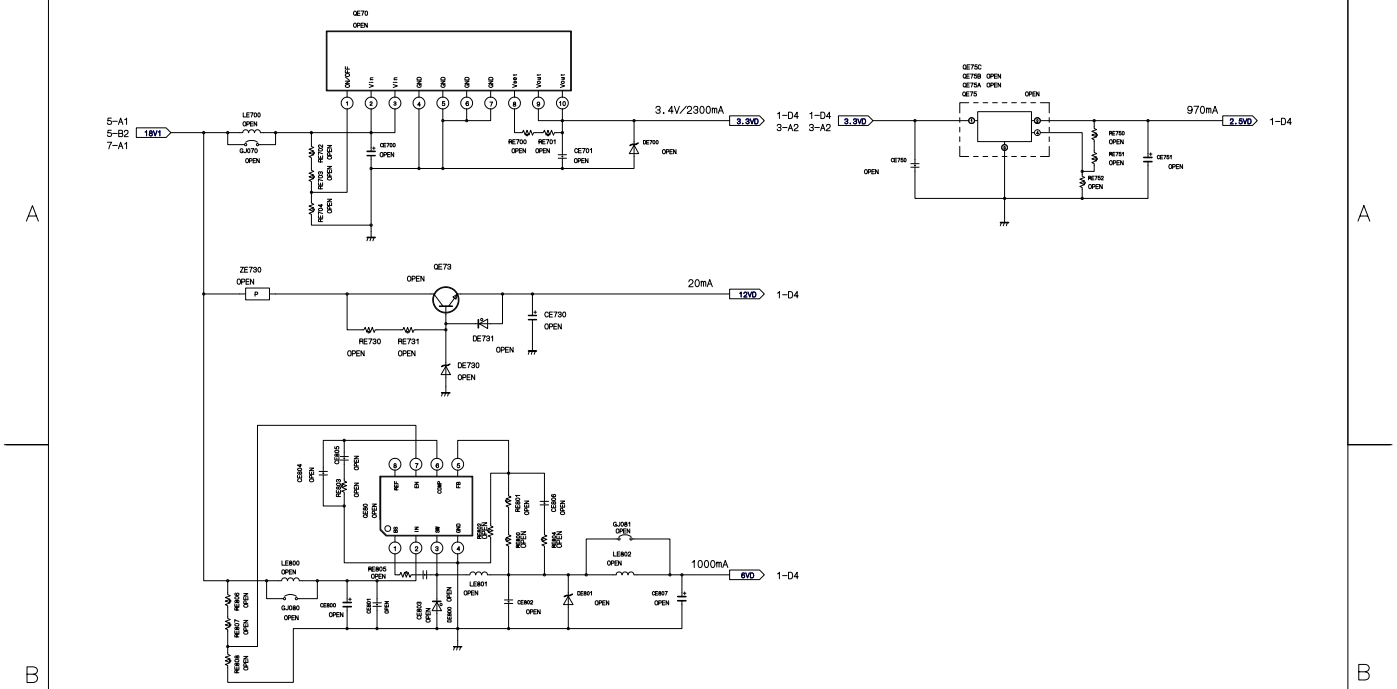
U01A POWER [3] SUB_POWER (PE0252)


LIVE AREA
U01A POWER [4] AC-INPUT (PE0252)

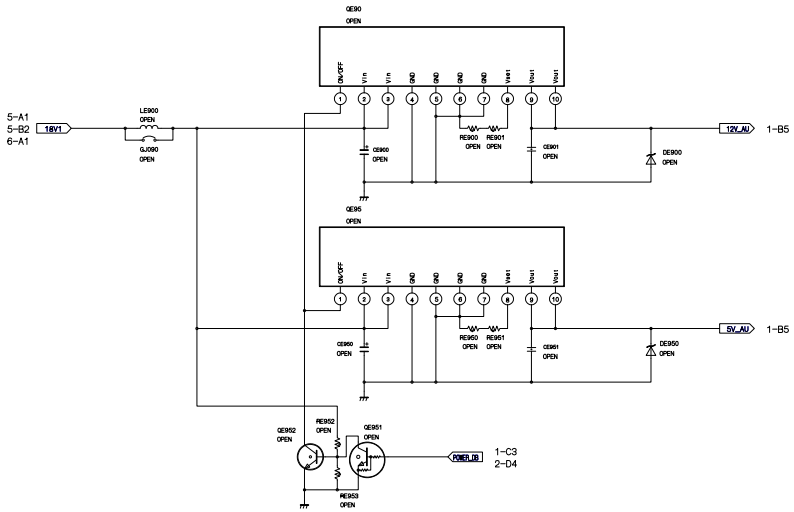


U02A LOW_B [1] CONNECTOR (PE0253)


1 2 3 4 5 6 7 8
A B C D E F
50mA
150mA
32V 5mA
18V1 1600mA
620mA
2000mA
210mA
U02A LOW_B [2] REGULATOR (PE0253)

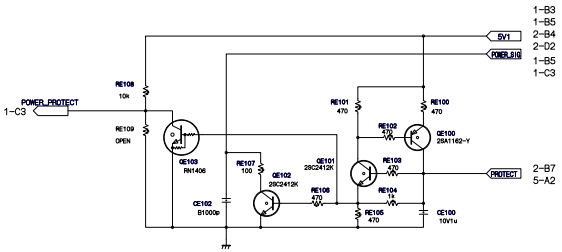


U02A LOW_B [3] for UK DIGITAL (PE0253)

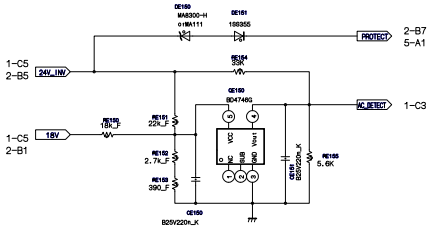


U02A LOW_B [4] for AU_DIGITAL (PE0253)

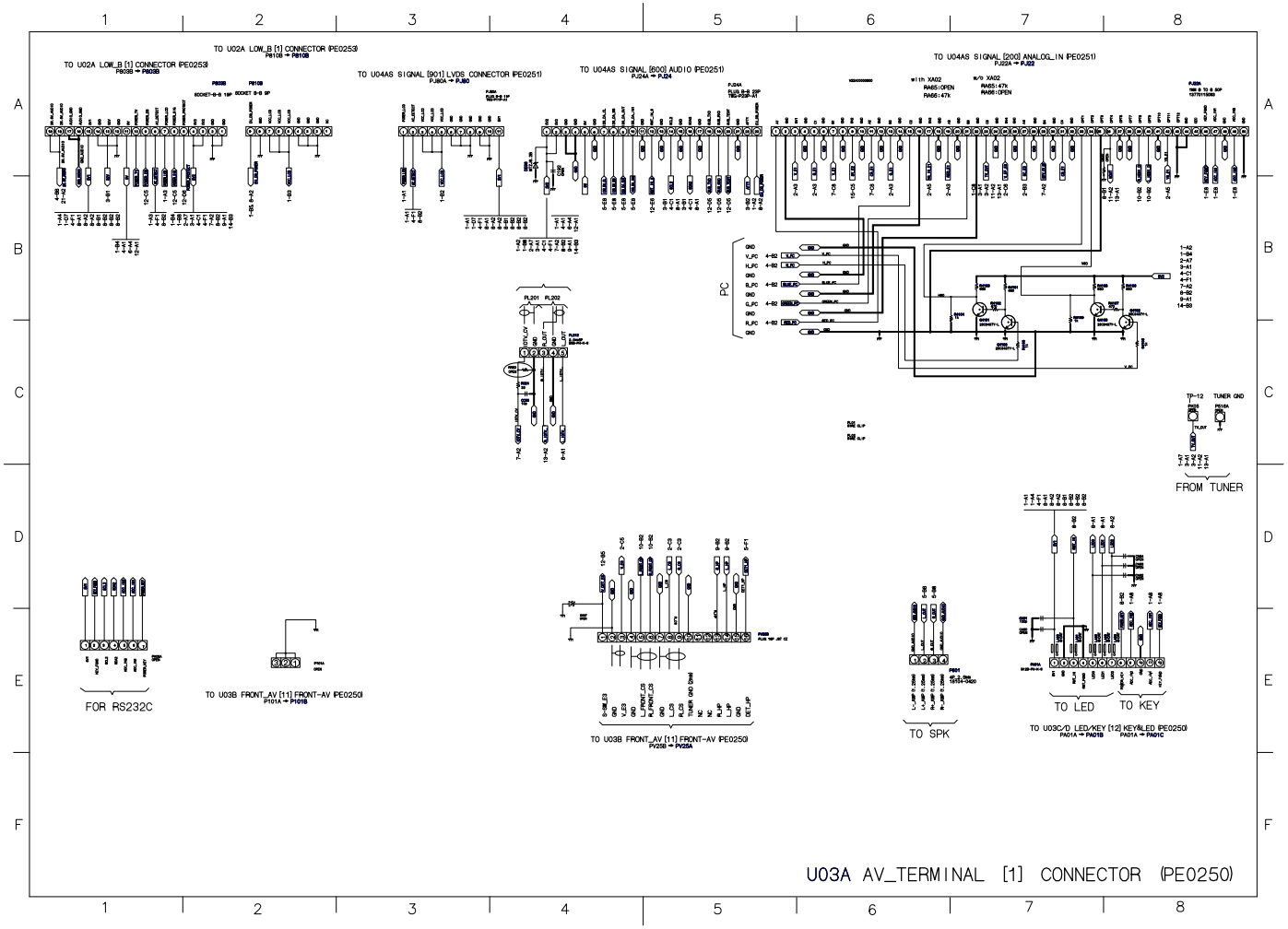
PROTECTER

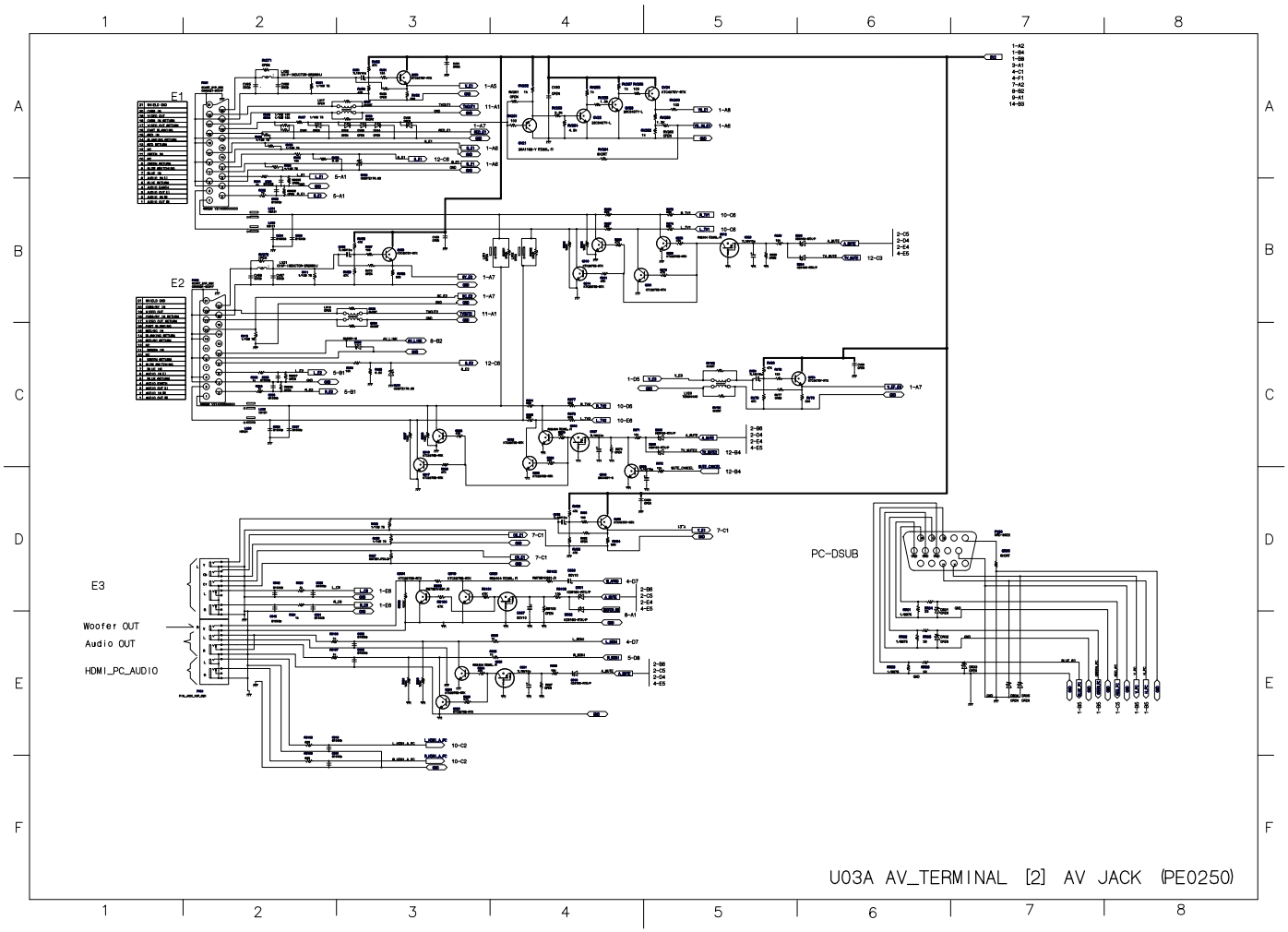


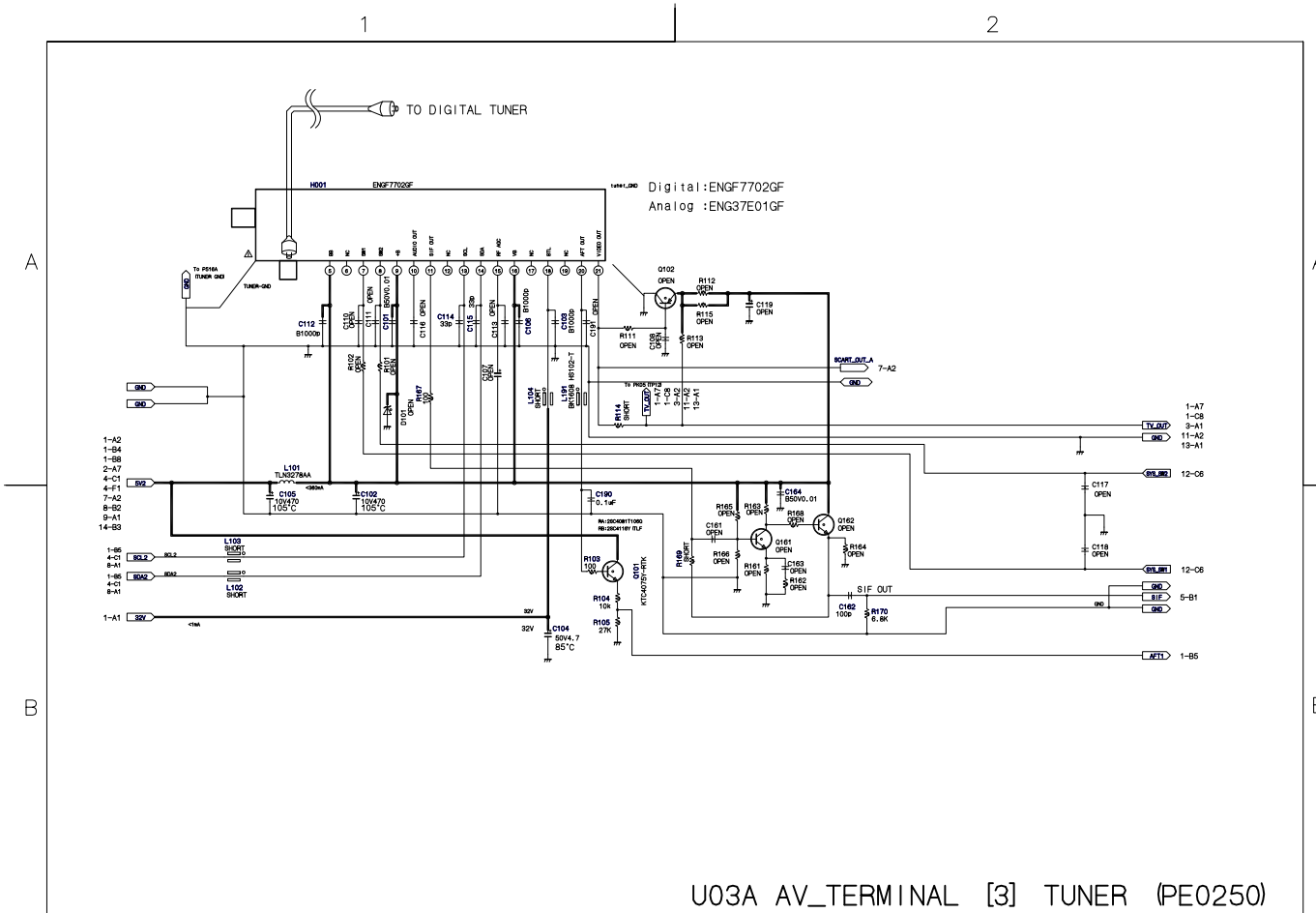
ACDETECT



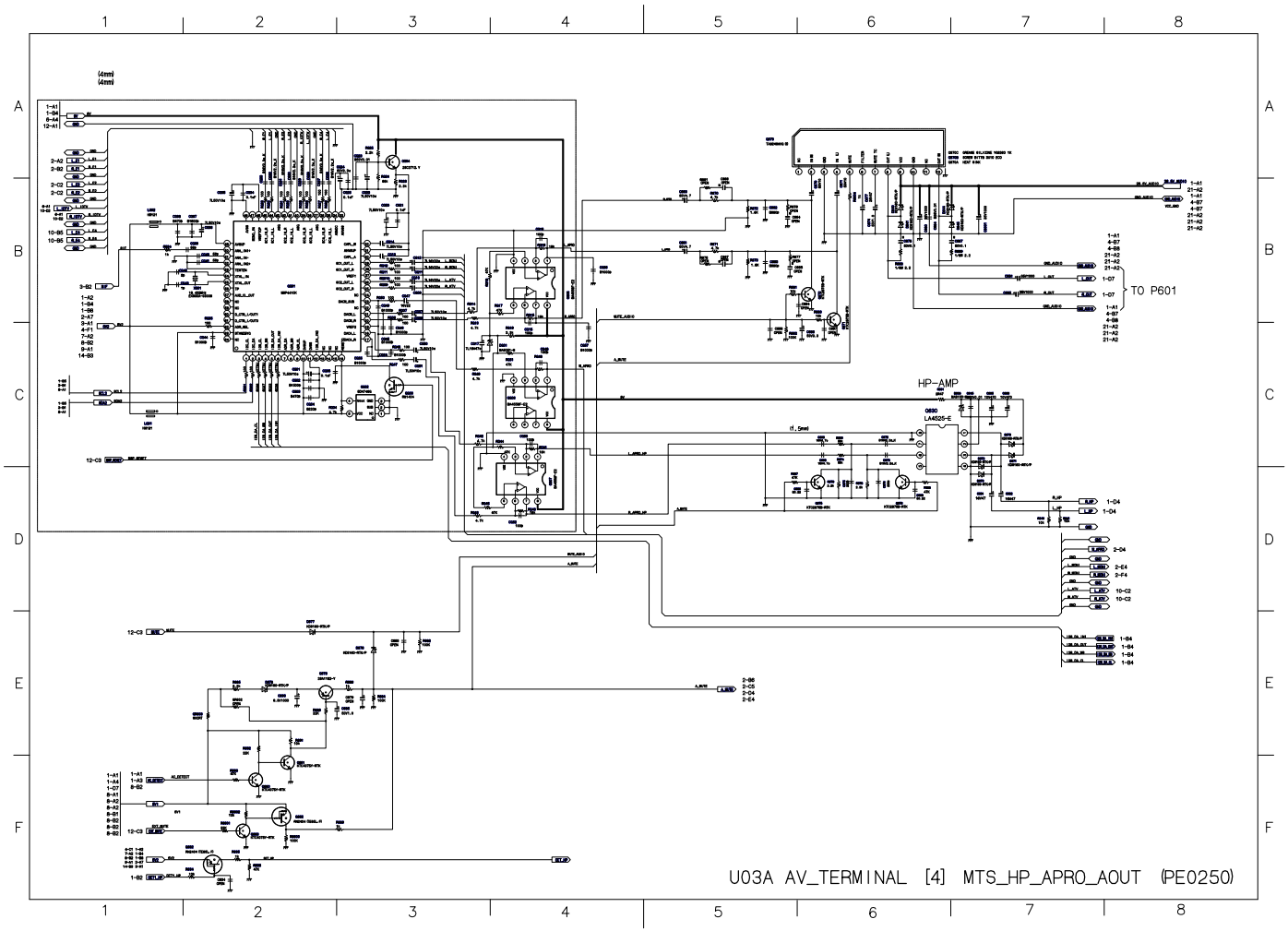
U02A LOW_B [5] OTHER (PE0253)

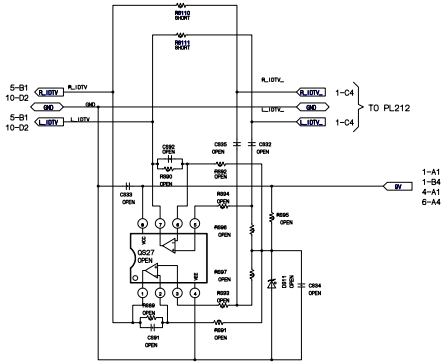

TO U02A LOW_B [1] CONNECTOR (PE0253)
TO U02A LOW_B [1] CONNECTOR (PE0253)
TO U04AS SIGNAL [901] LVDS CONNECTOR (PE0251)
TO U04AS SIGNAL [902] AUDIO (PE0251)
TO U04AS SIGNAL [202] ANALOG_IN (PE0251)
PC
TP-12 TUNER GND
FROM TUNER
FOR RS232C
TO U03B FRONT_AV [11] FRONT-AV (PE0250)
TO U03B FRONT_AV [11] FRONT-AV (PE0250)
TO SPK
TO LED
TO KEY
TO U03C/D LED/KEY [12] KEY&LED (PE0250)
U03A AV_TERMINAL [1] CONNECTOR (PE0250)


E1
E2
E3
Woofer OUT
Audio OUT
HDMI_PC_AUDIO
PC-DSUB
U03A AV_TERMINAL [2] AV JACK (PE0250)

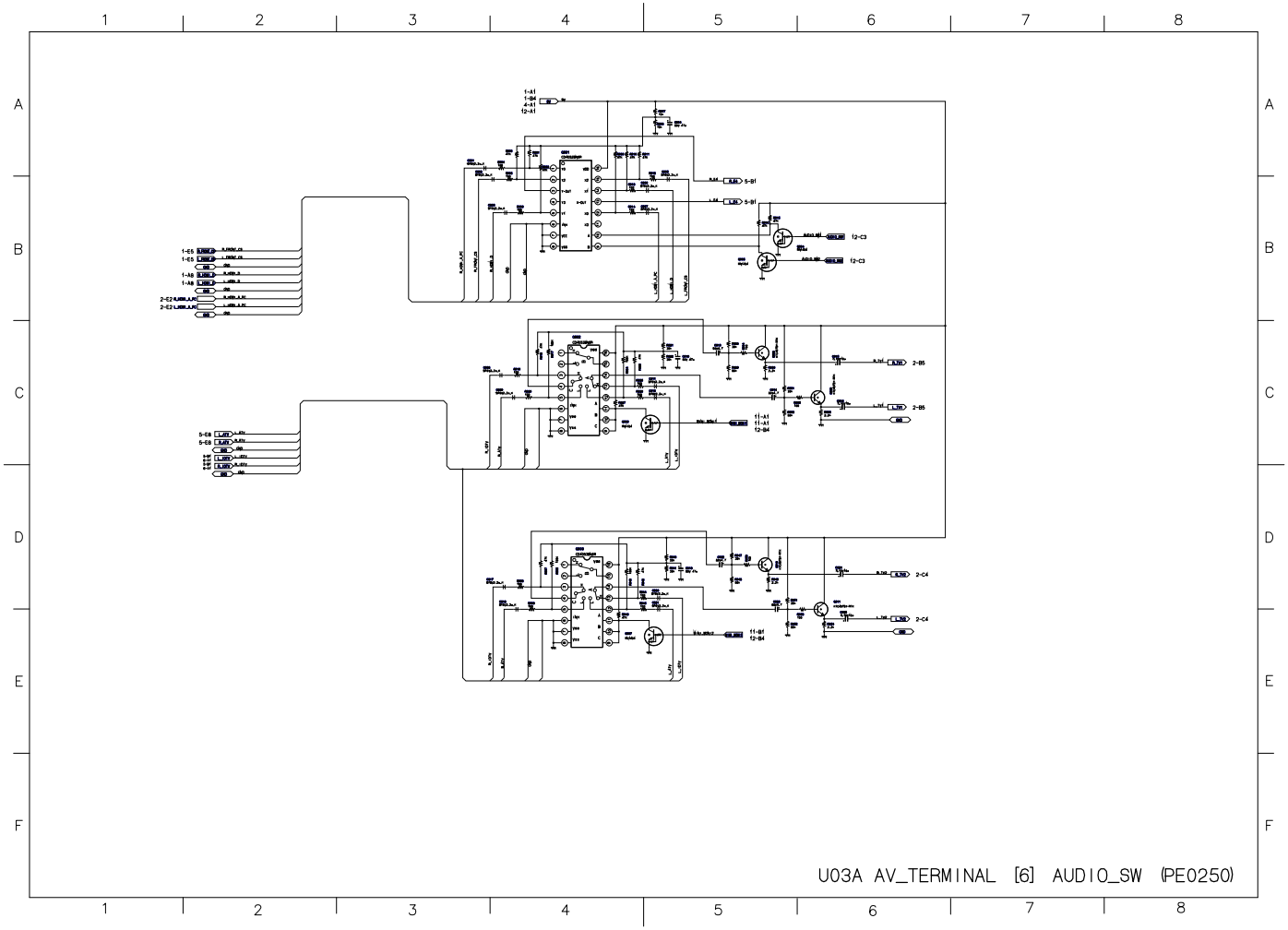


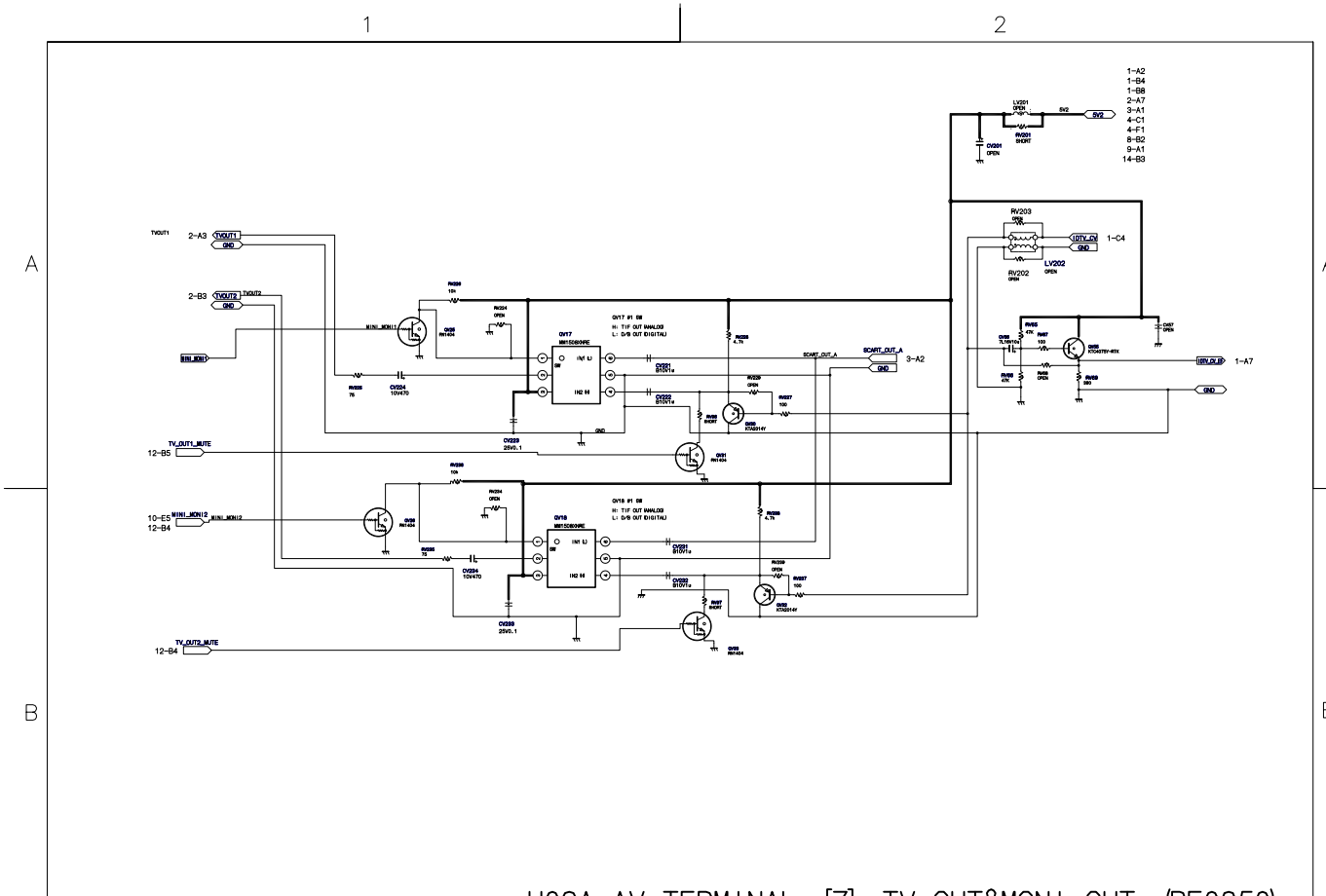
U03A AV_TERMINAL [3] TUNER (PE0250)

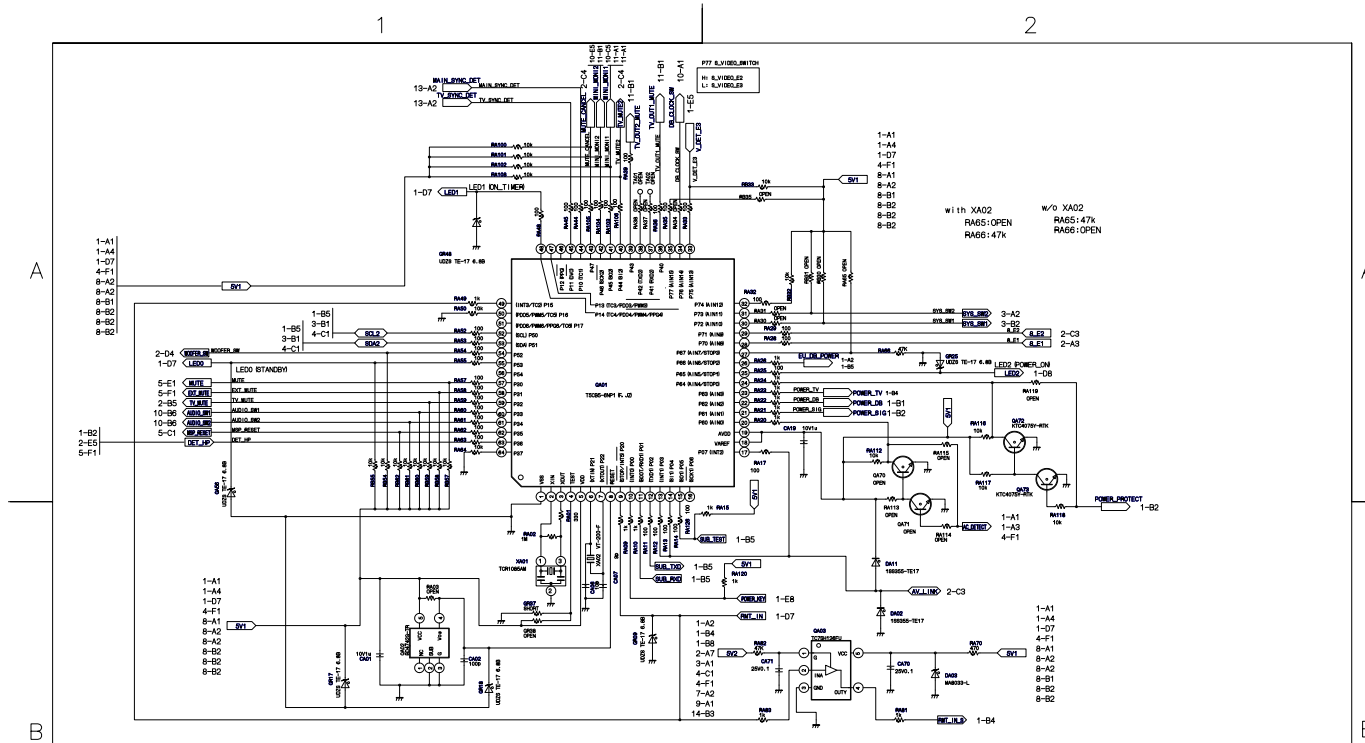

HP-AMP
TO P601
U03A AV_TERMINAL [4] MTS_HP_APRO_AOUT (PE0250)



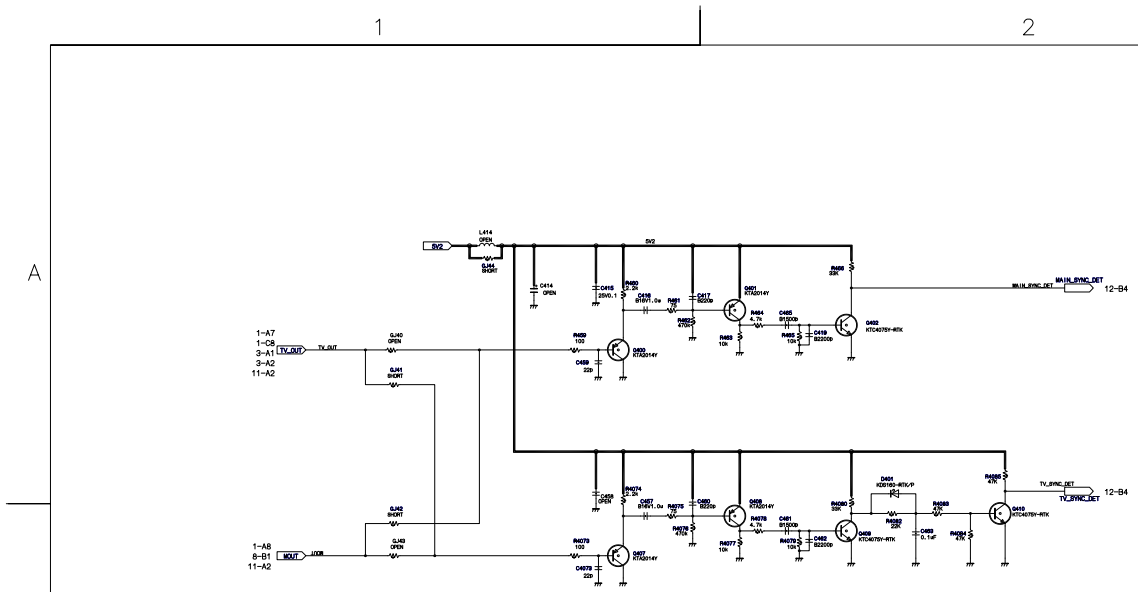
U03A AV_TERMINAL [5] EU_DIGITAL_RECEIVE CIRCUIT (PE0250)


U03A AV_TERMINAL [6] AUDIO_SW (PE0250)

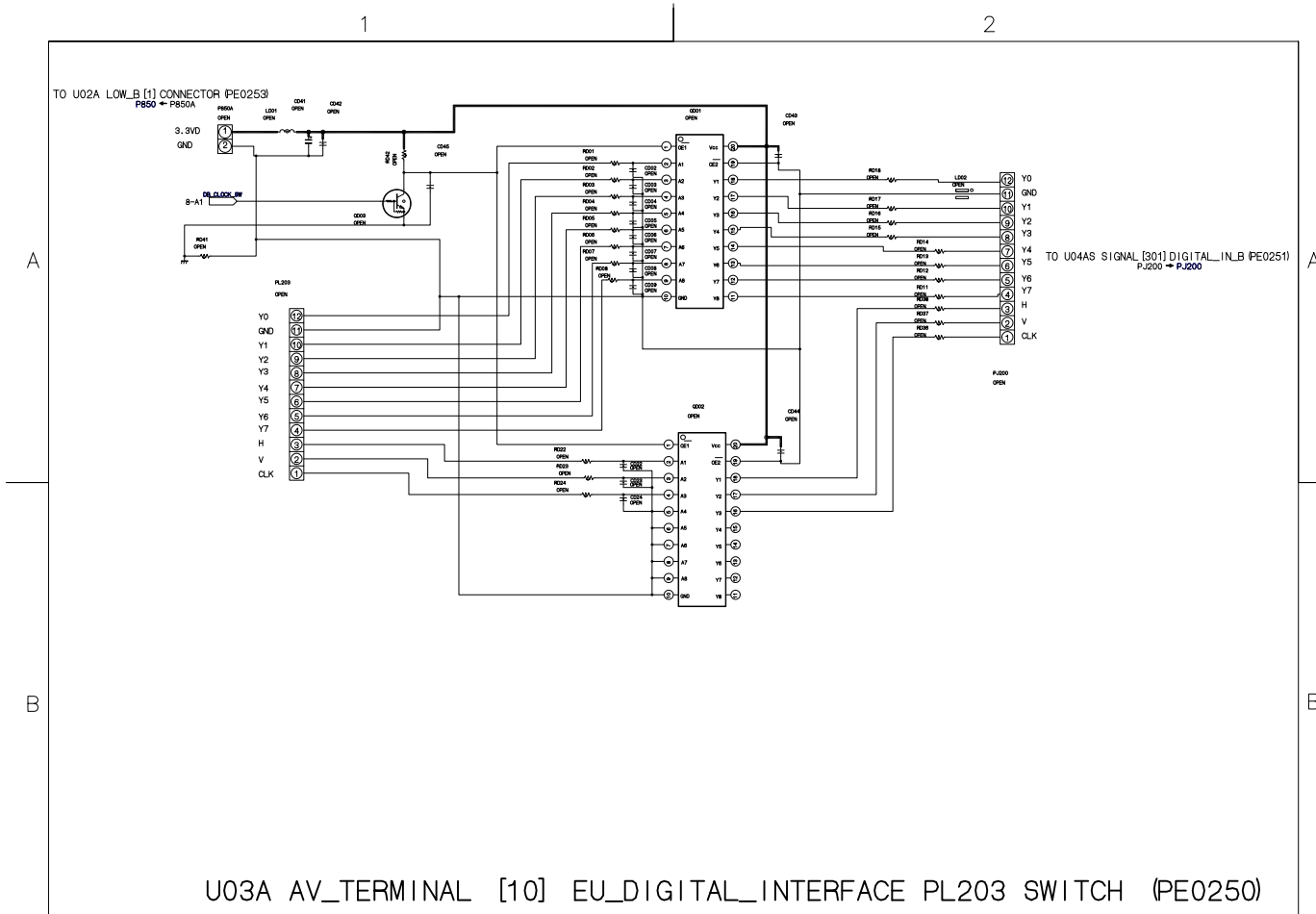

1
2
A
B
U03A AV_TERMINAL [7] TV-OUT&MONI-OUT (PE0250)



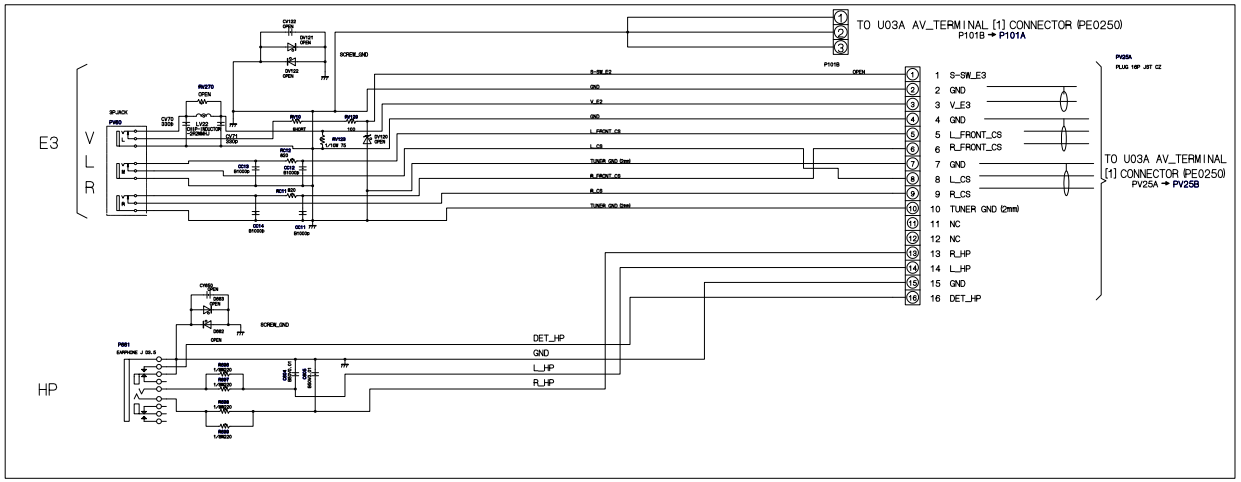
U03A AV_TERMINAL [8] STANDBY MICRO (PE0250)



U03A AV_TERMINAL [9] SYNC_DET (PE0250)



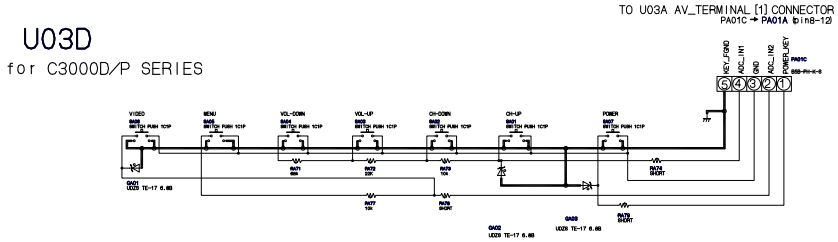
U03A AV_TERMINAL [10] EU_DIGITAL_INTERFACE PL203 SWITCH (PE0250)

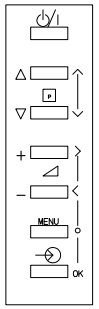


U03B FRONT_AV [11] FRONT-AV (PE0250)

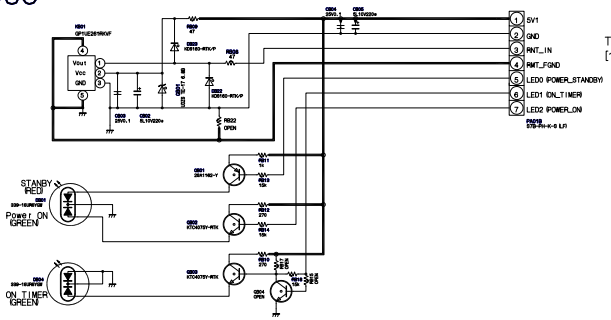
U03D

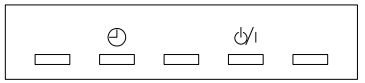
for C3000D/P SERIES



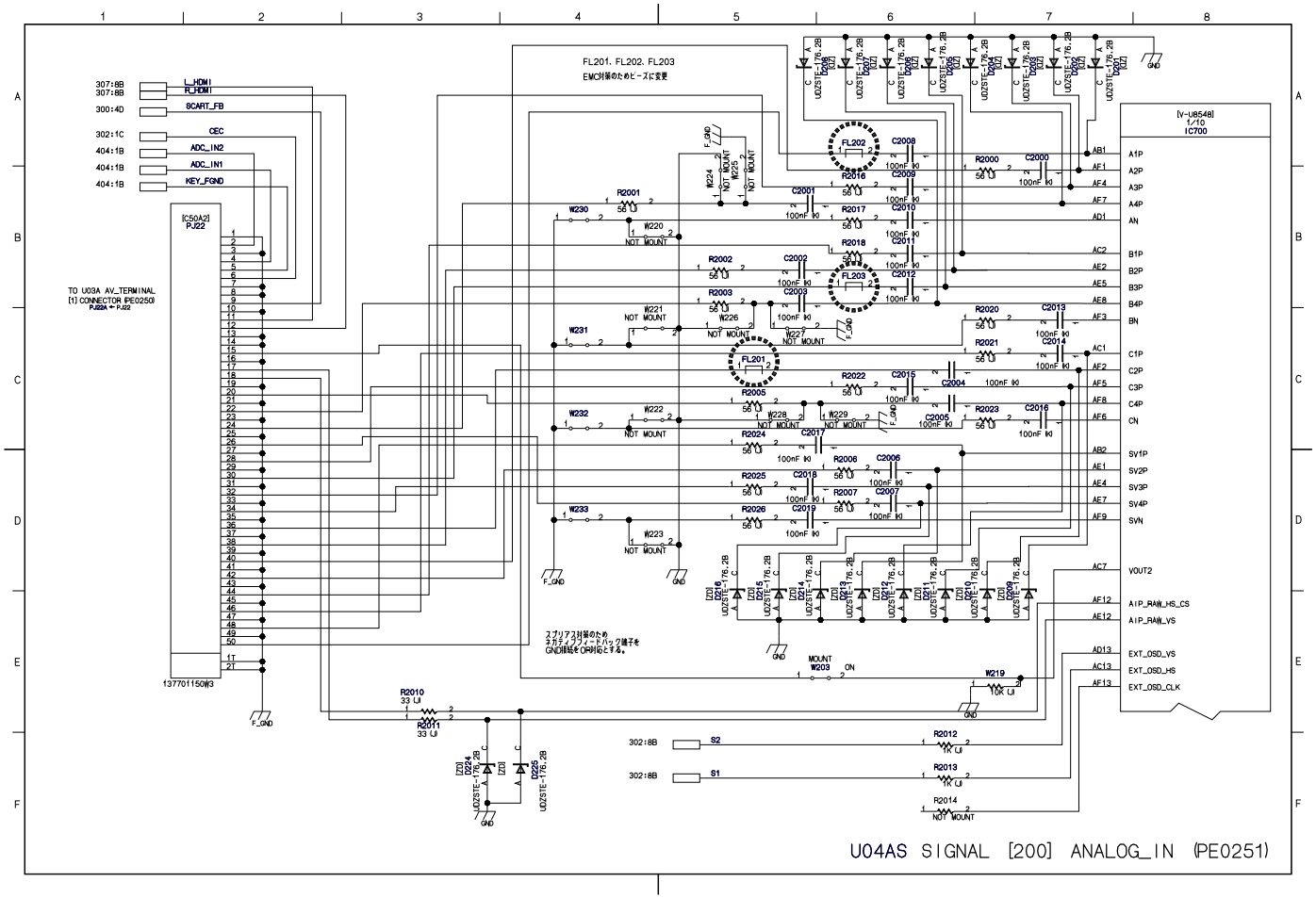


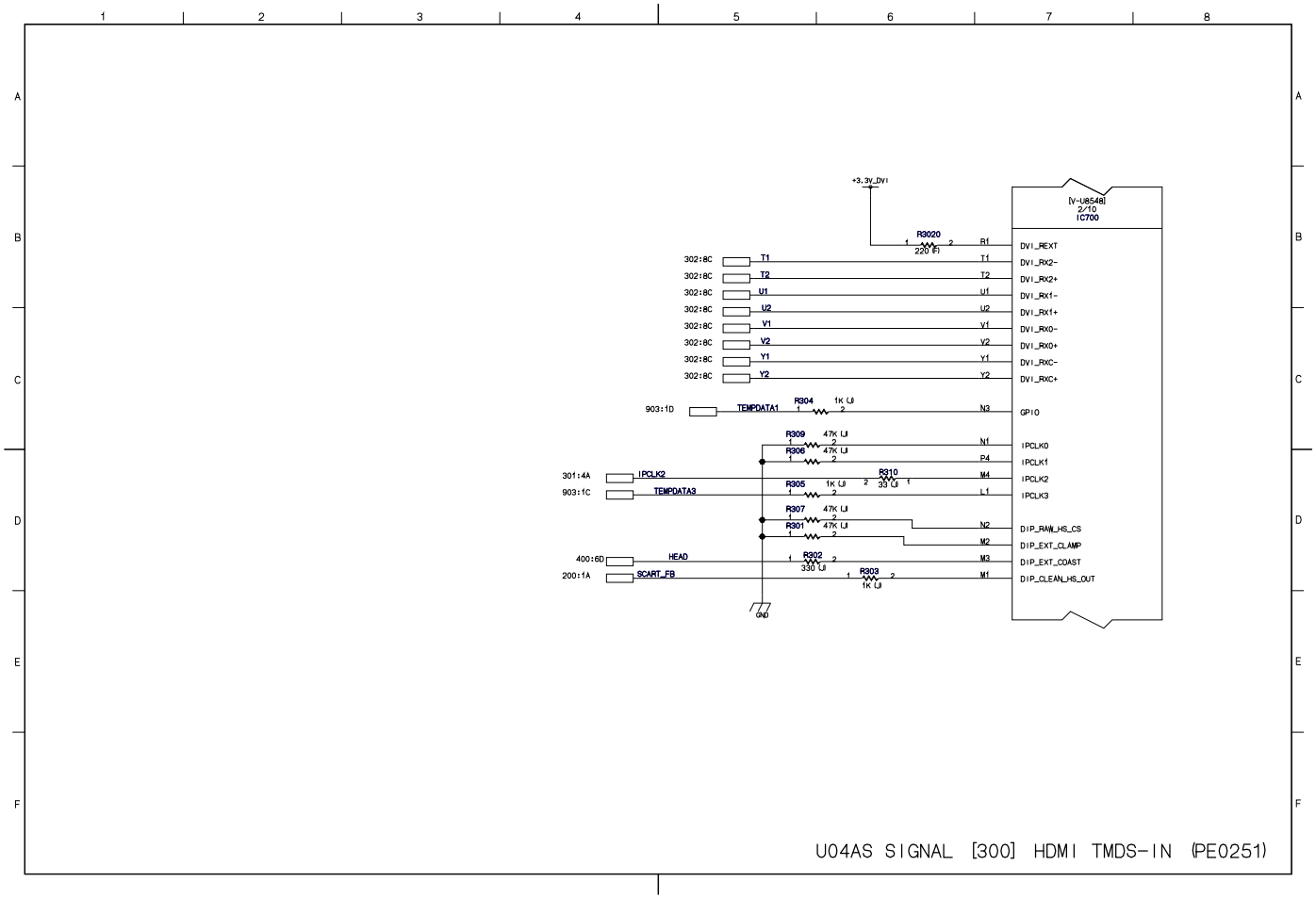
U03C



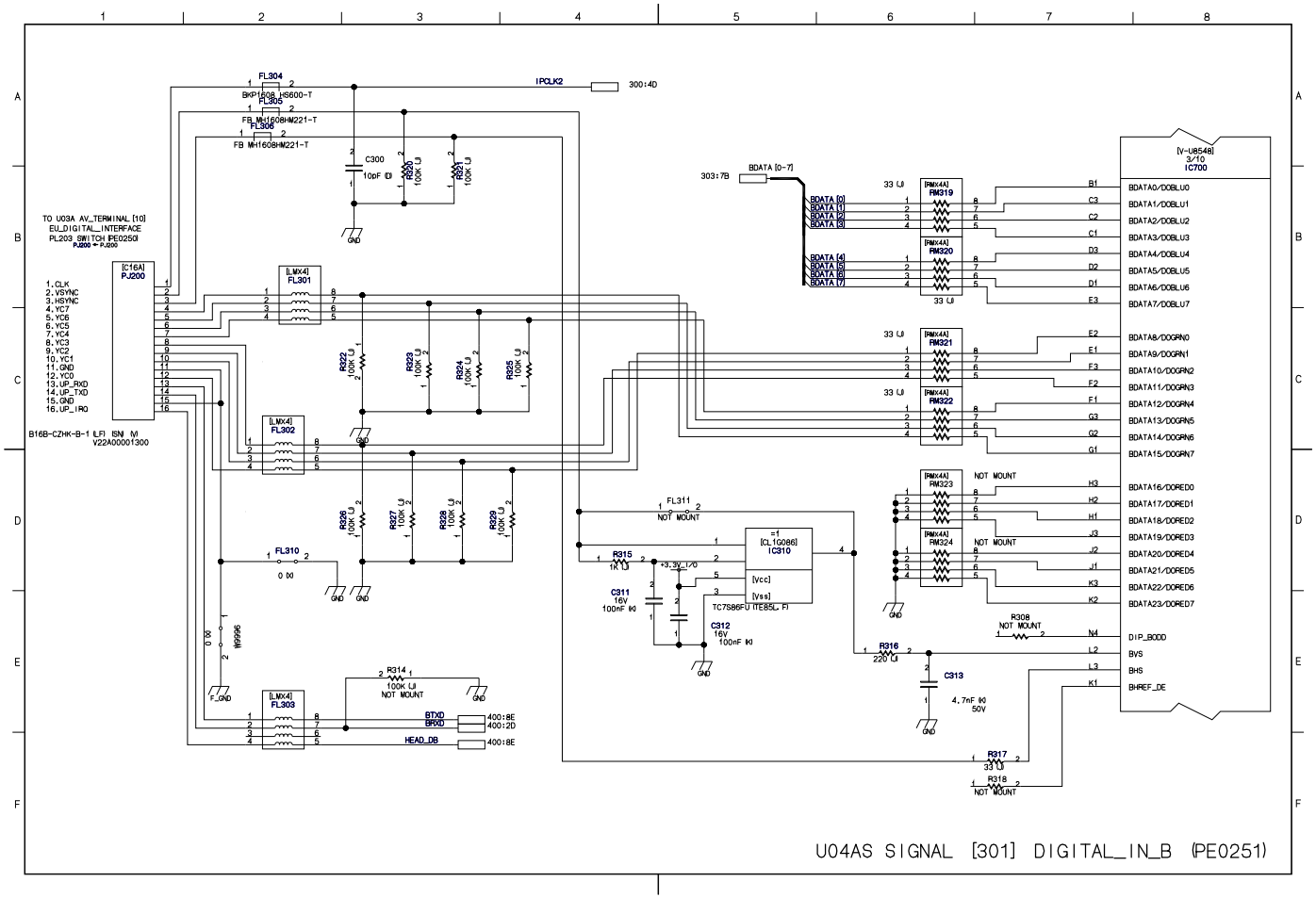


U03C/D LED/KEY [12] KEY & LED (PE0250)

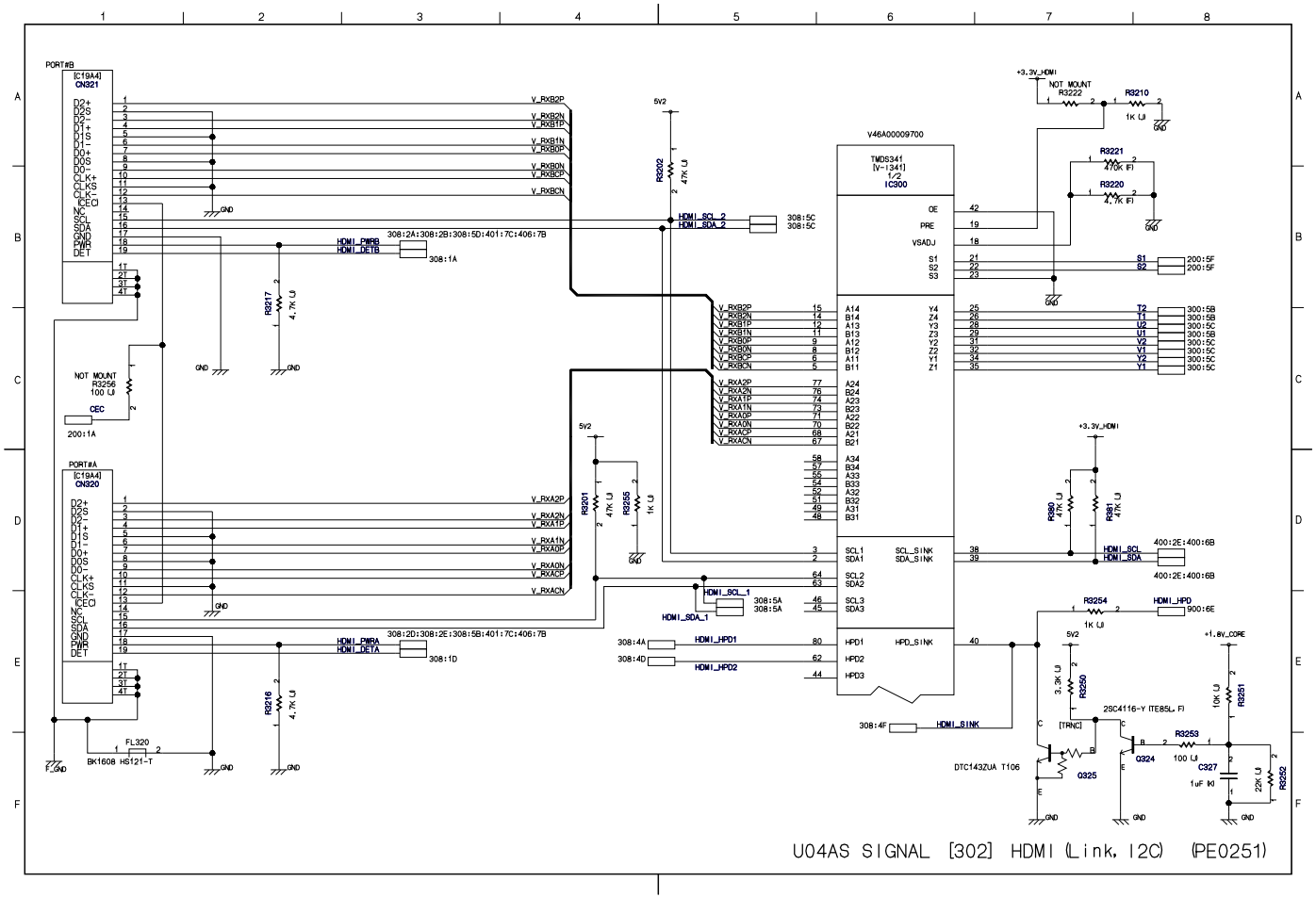

FL201, FL202, FL203
EMC対策のためビーズに変更
L_HDMI
R_HDMI
SCART_FB
CEC
ADC_IN2
ADC_IN1
KEY_FGND
TO U03A AV_TERMINAL
[1] CONNECTOR (PE0250)
PJ22A ~ PJ22
[C50A2]
PJ22
13770115(W)3
[V-U8548]
1/10
IC700
AB1
A1P
AF1
A2P
AF4
A3P
AF7
A4P
AD1
AN
AC2
B1P
AE2
B2P
AE5
B3P
AE8
B4P
AF3
BN
AC1
C1P
AF2
C2P
AF5
C3P
AF8
C4P
AF6
CN
AB2
SV1P
AE1
SV2P
AE4
SV3P
AE7
SV4P
AF9
SVN
AC7
VOUT2
AF12
A1P_RAW_HS_CS
AE12
A1P_RAW_VS
AD13
EXT_OSD_VS
AC13
EXT_OSD_HS
AF13
EXT_OSD_CLK
スプリアス対策のため
ネガティブフィードバック端子を
GND接続をOPHに変える。
S2
S1
U04AS SIGNAL [200] ANALOG_IN (PE0251)



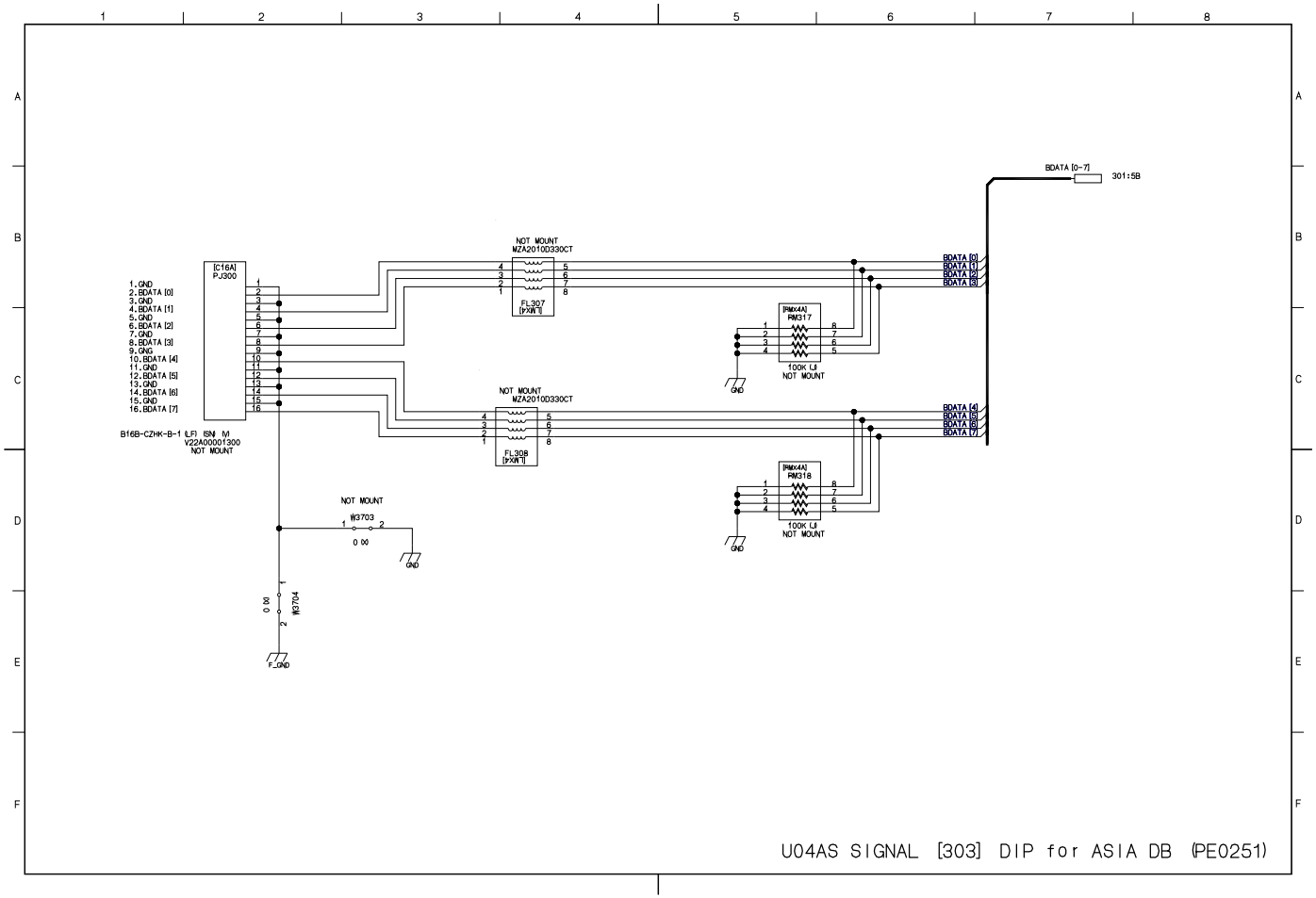
U04AS SIGNAL [300] HDMI TMDS-IN (PE0251)



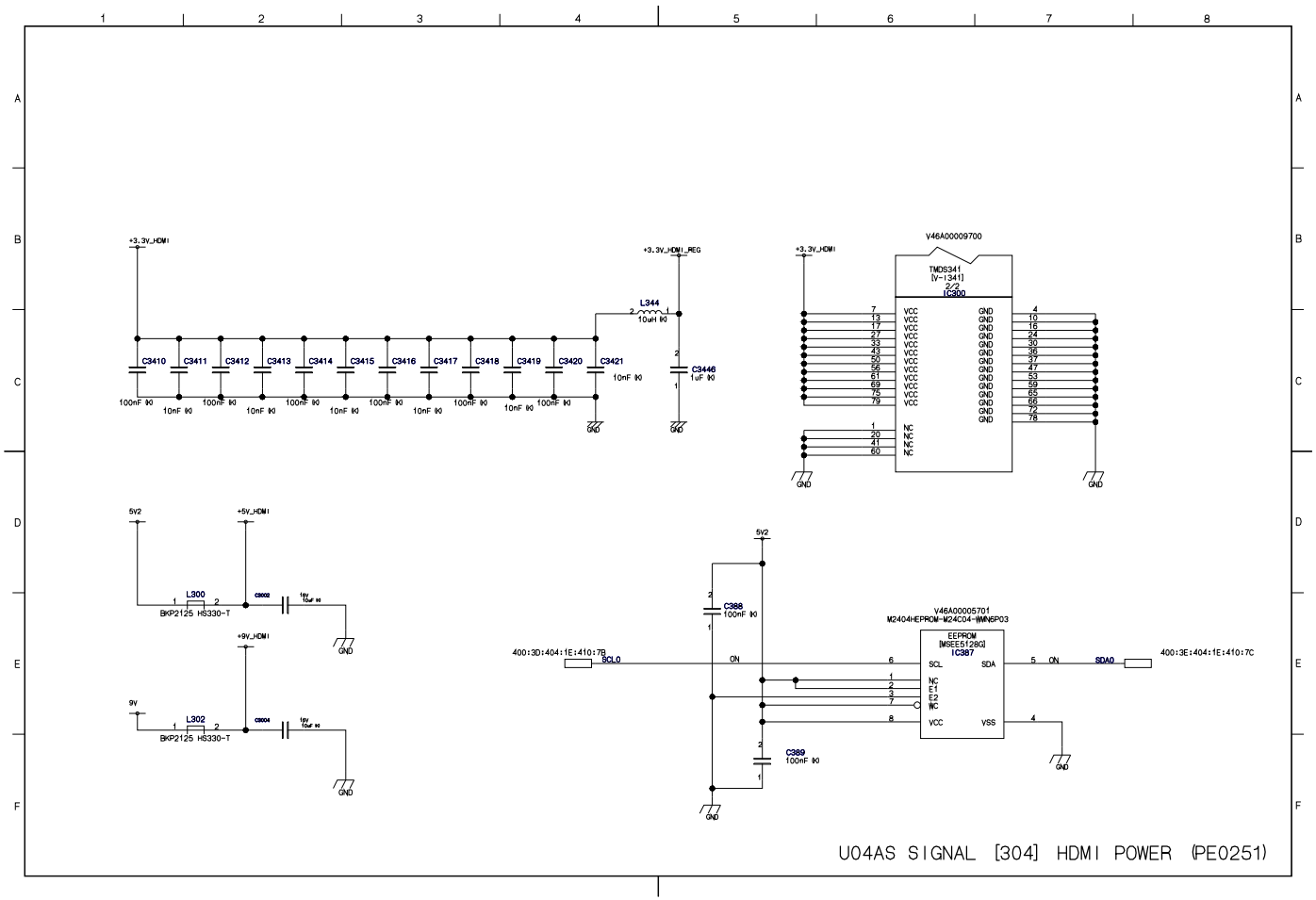
U04AS SIGNAL [301] DIGITAL_IN_B (PE0251)



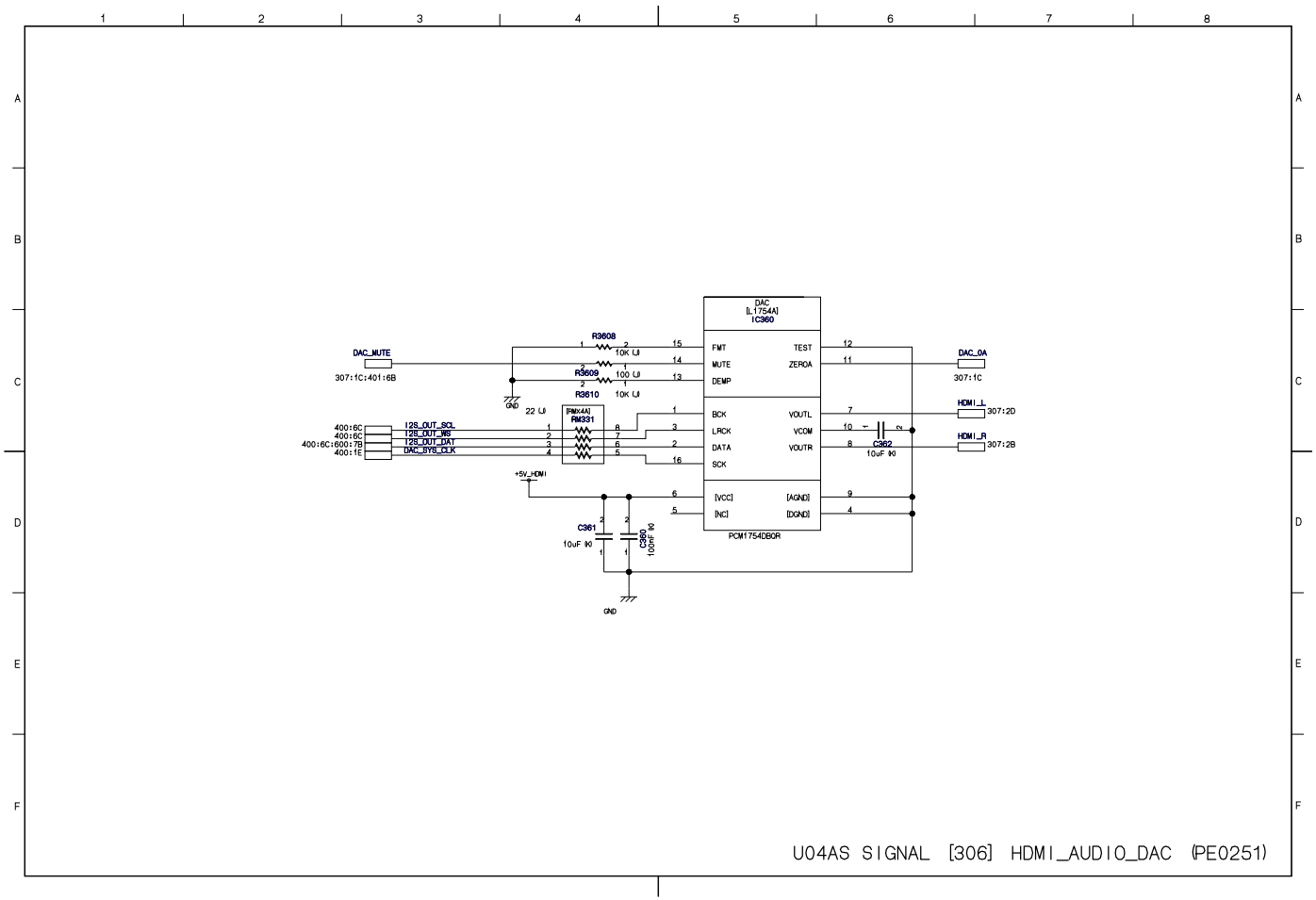
U04AS SIGNAL [302] HDMI (Link, I2C) (PE0251)



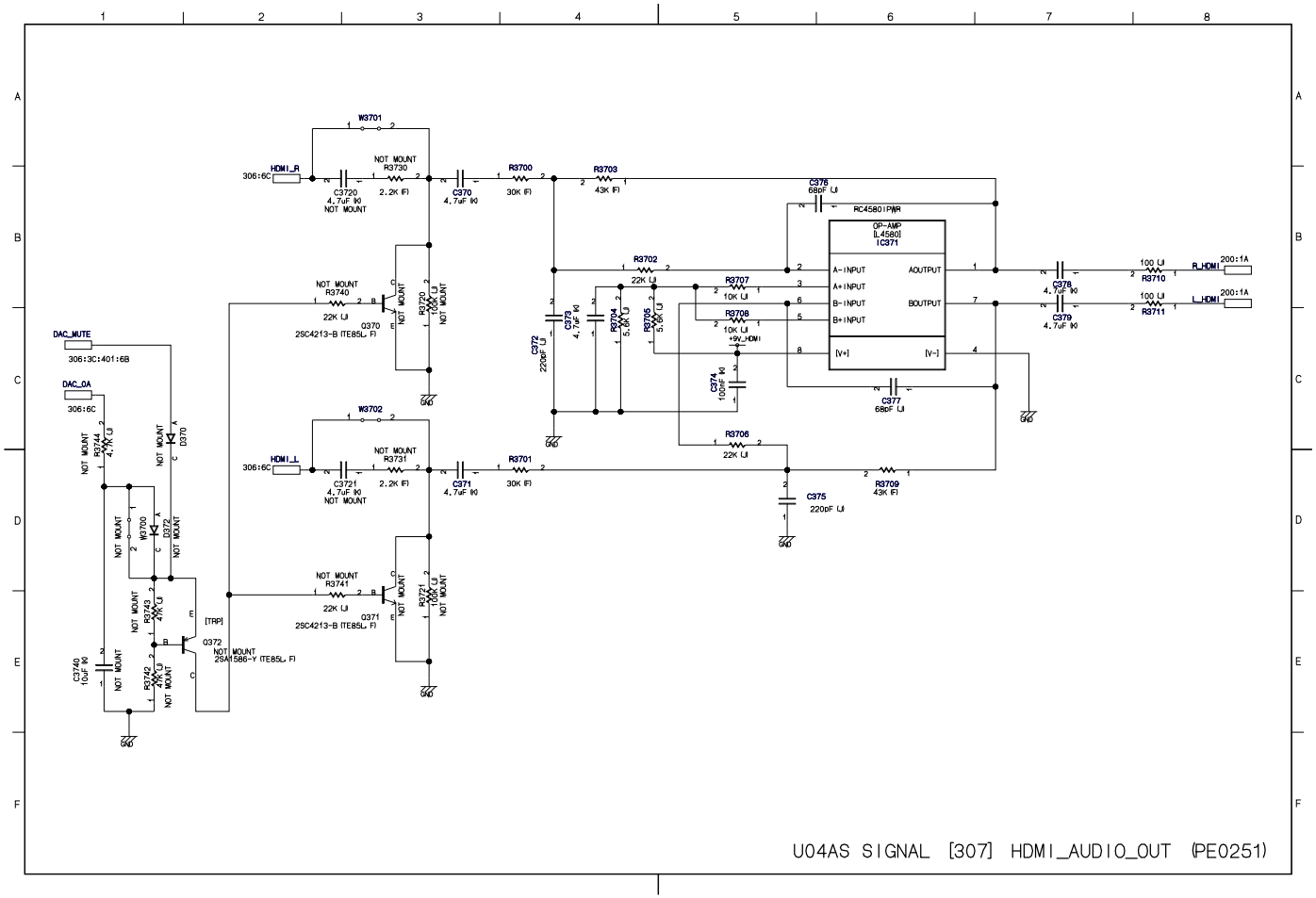
U04AS SIGNAL [303] DIP for ASIA DB (PE0251)



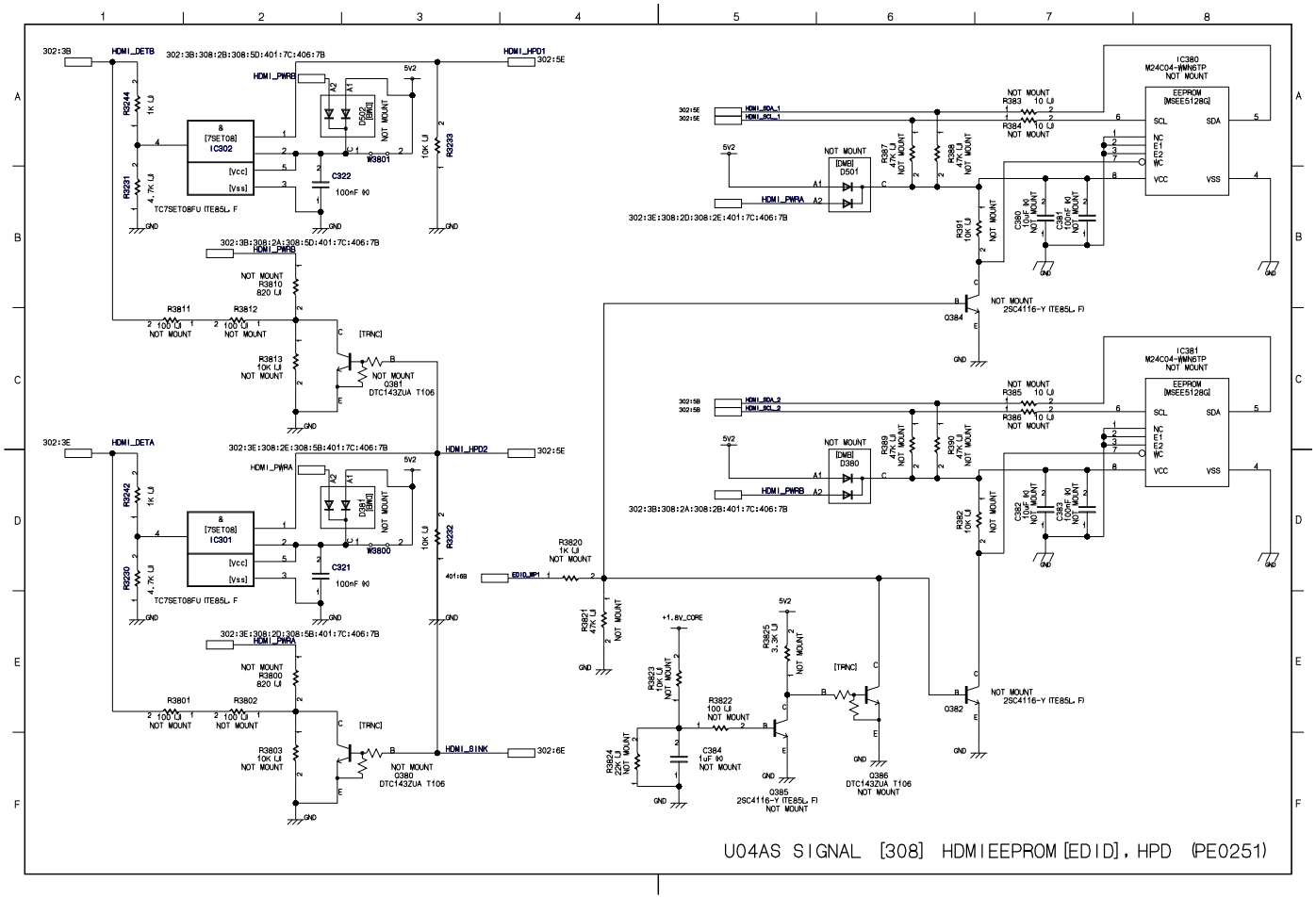
U04AS SIGNAL [304] HDMI POWER (PE0251)

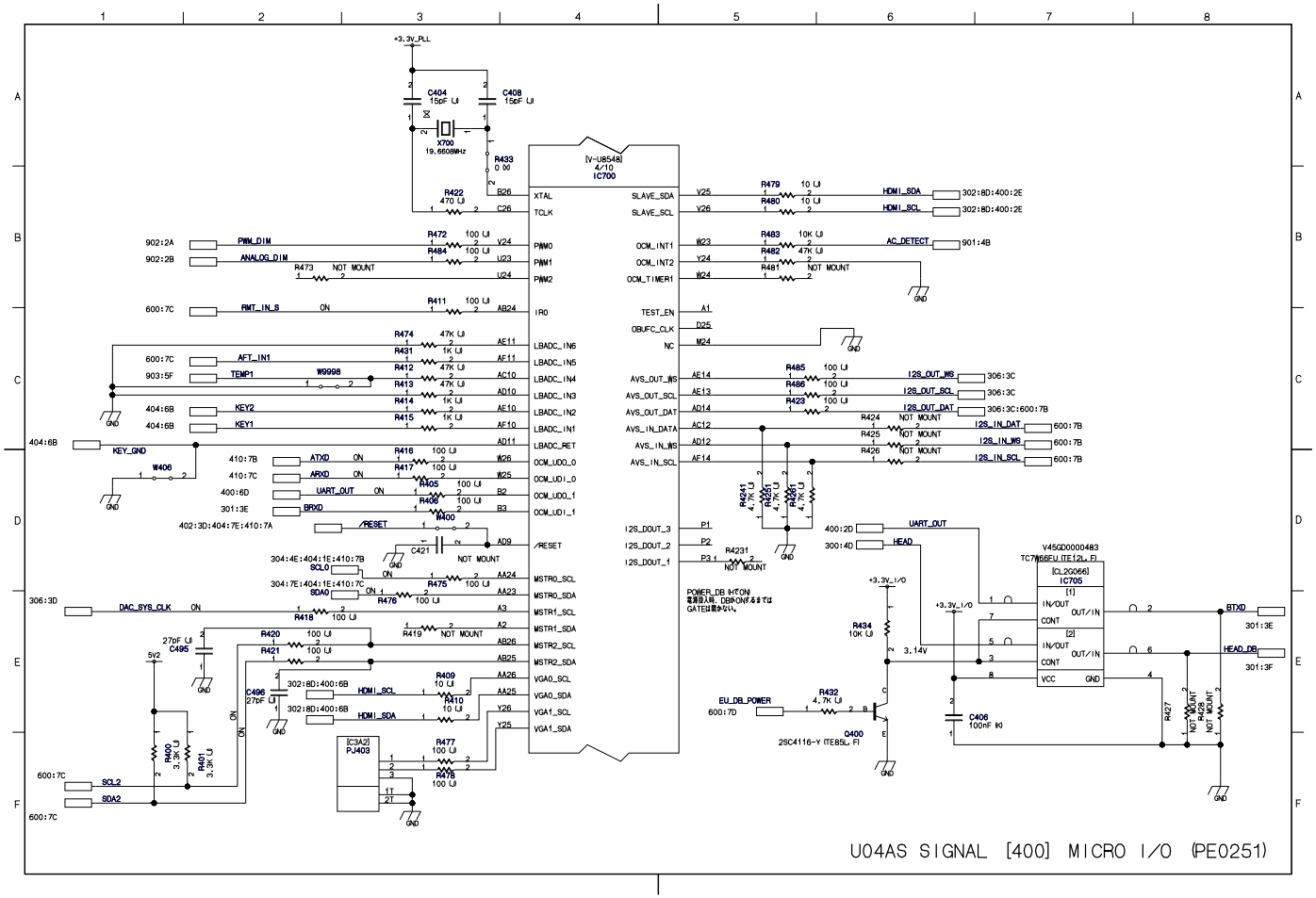


U04AS SIGNAL [306] HDMI_AUDIO_DAC (PE0251)

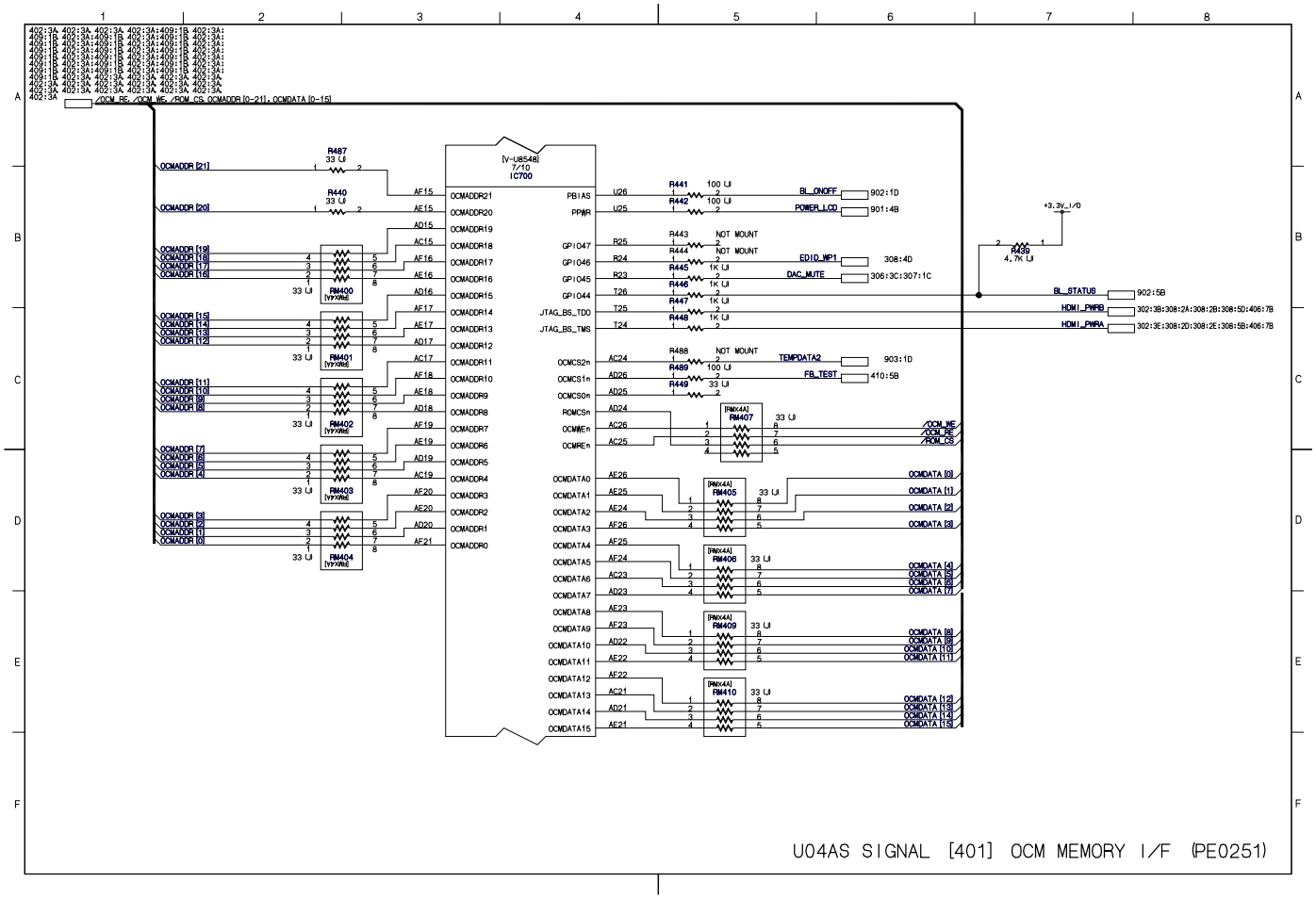


U04AS SIGNAL [307] HDMI_AUDIO_OUT (PE0251)

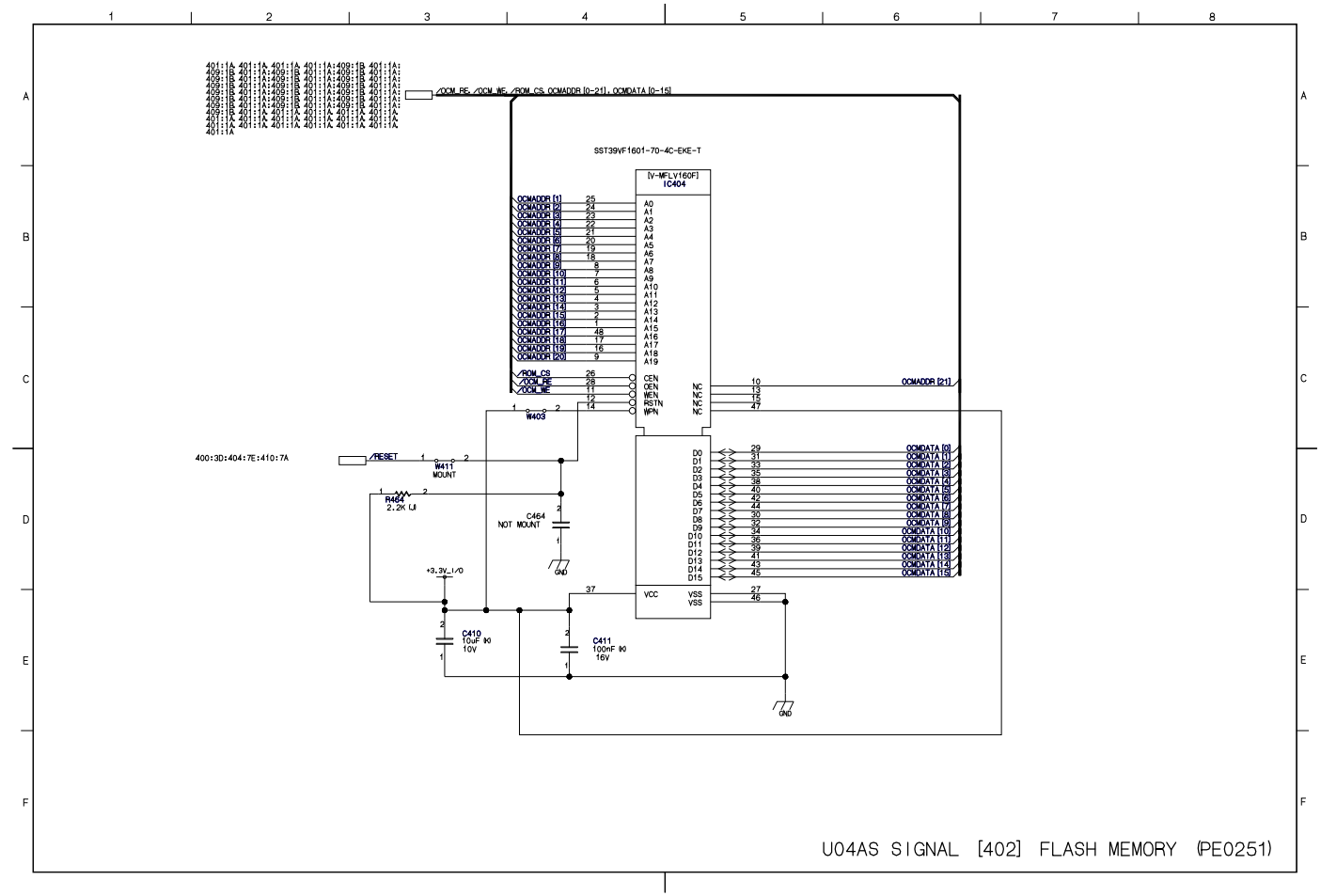

HDMI_DETB
HDMI_PWRB
HDMI_HPD1
HDMI_DETA
HDMI_PWRA
HDMI_HPD2
HDMI_SINK
EDID_WP1
HDMI_SDA_1
HDMI_SCL_1
HDMI_SDA_2
HDMI_SCL_2
IC380
IC381
M24C04-WMN6TP
NOT MOUNT
EEPROM
(MSEE5128G)
SCL
SDA
VCC
VSS
IC302
IC301
TC7SET08FU (TE85L, F
Q384
Q382
Q385
Q386
2SC4116-Y (TE85L, F)
DTC143ZUA T106
D502
D501
D381
D380
C322
C321
100nF (K)
C384
1uF (K)
R3820
1K (J)
R3821
47K (J)
R3822
100 (J)
R3823
10K (J)
R3824
22K (J)
R3825
3.3K (J)
R3810
820 (J)
R3800
R3244
R3242
R3231
R3230
R3233
R3222
R3801
R3802
R3803
R3811
R3812
R3813
R383
R384
R385
R386
R387
R388
R389
R390
R391
R382
C380
C381
C382
C383
[TRNC]
[VCC]
[Vss]
GND
5V2
+1.6V_CORE
NOT MOUNT
302:3B
302:5E
302:6E
302:5B
302:3E
302:3B:308:2B:308:5D:401:7C:406:7B
302:3B:308:2A:308:5D:401:7C:406:7B
302:3E:308:2E:308:5B:401:7C:406:7B
302:3E:308:2D:308:5B:401:7C:406:7B
302:3E:308:2D:308:2E:401:7C:406:7B
302:3B:308:2A:308:2B:401:7C:406:7B
U04AS SIGNAL [308] HDMIEEPROM[EDID], HPD (PE0251)



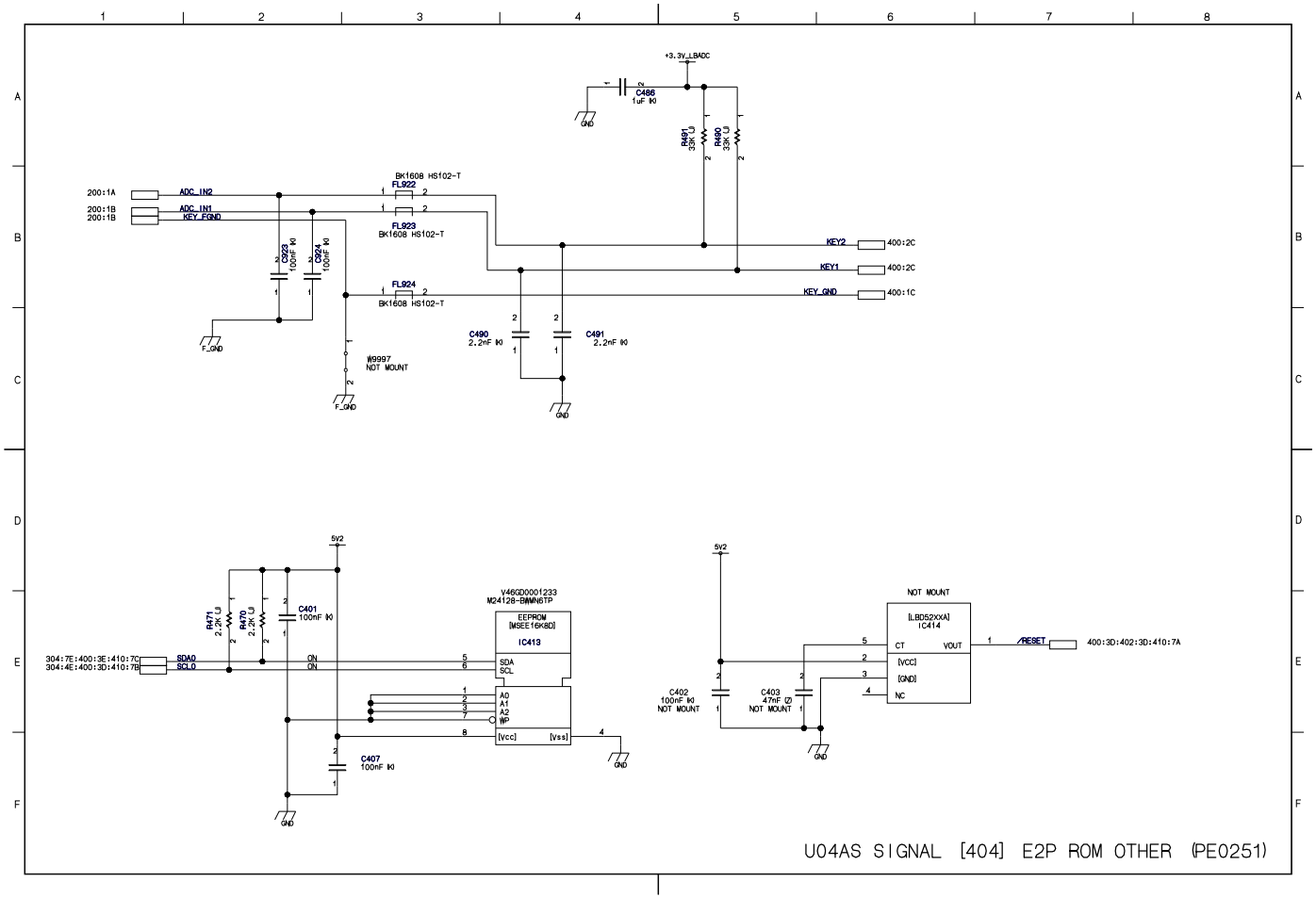
U04AS SIGNAL [400] MICRO I/O (PE0251)



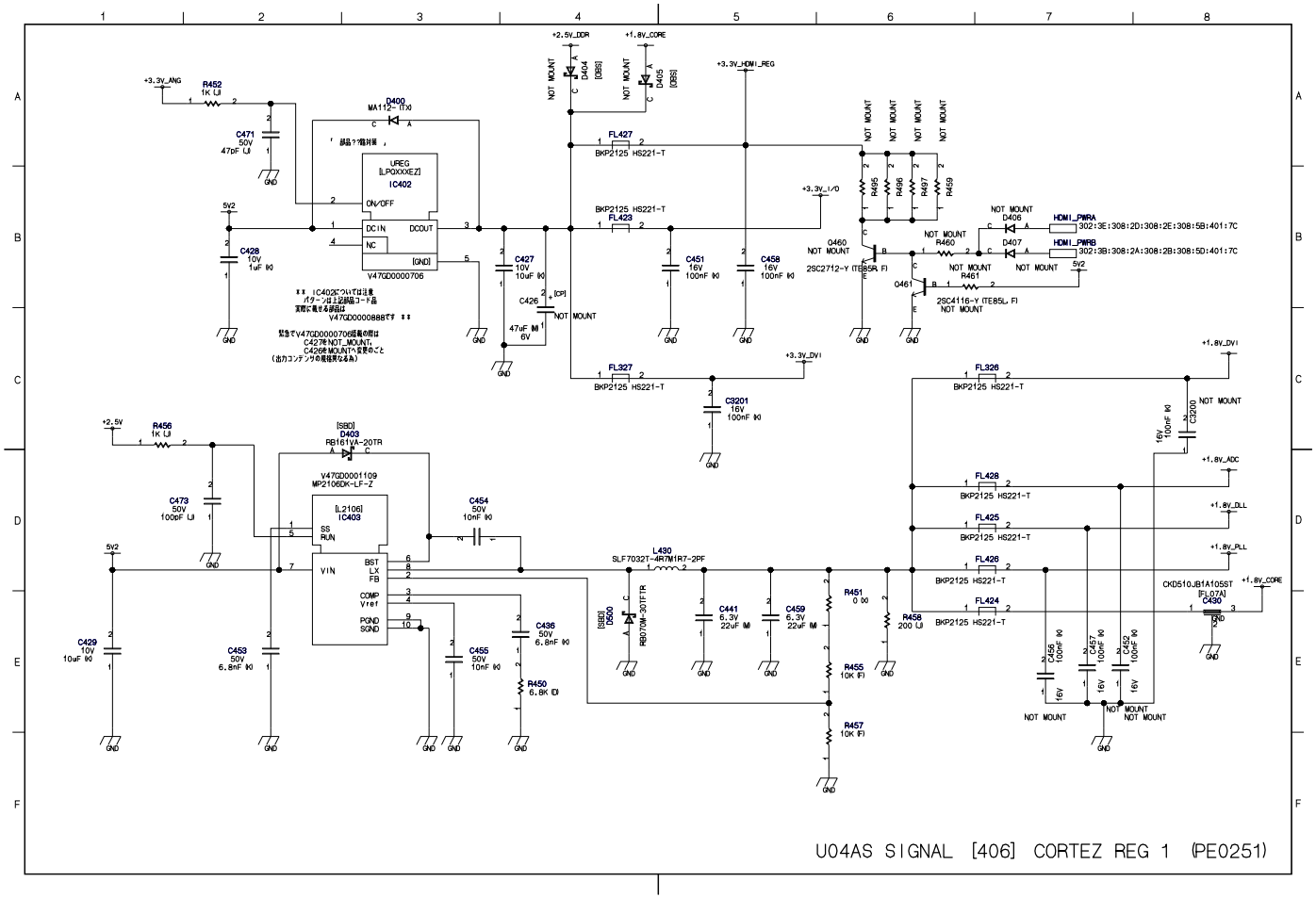
U04AS SIGNAL [401] OCM MEMORY I/F (PE0251)

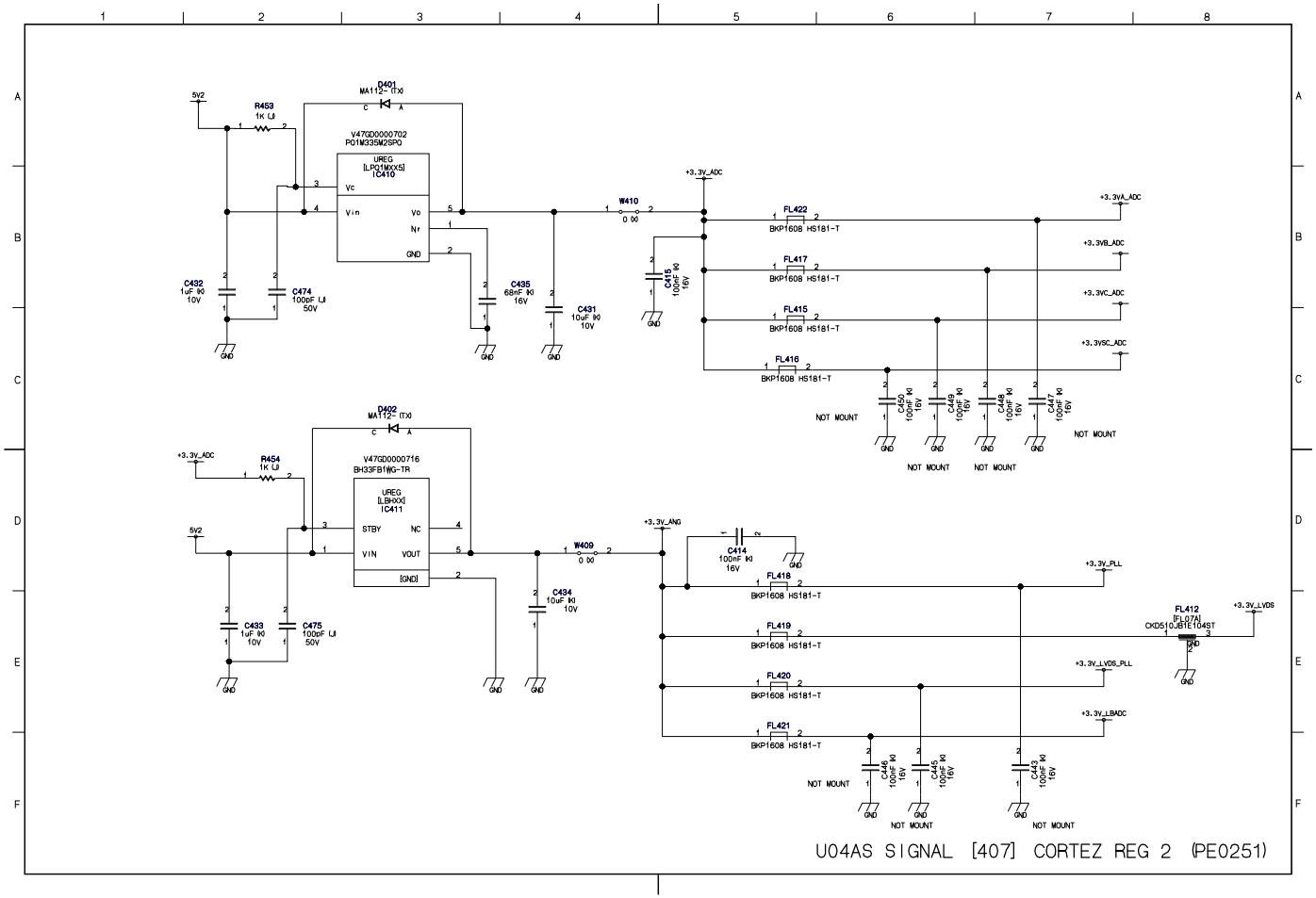


U04AS SIGNAL [402] FLASH MEMORY (PE0251)

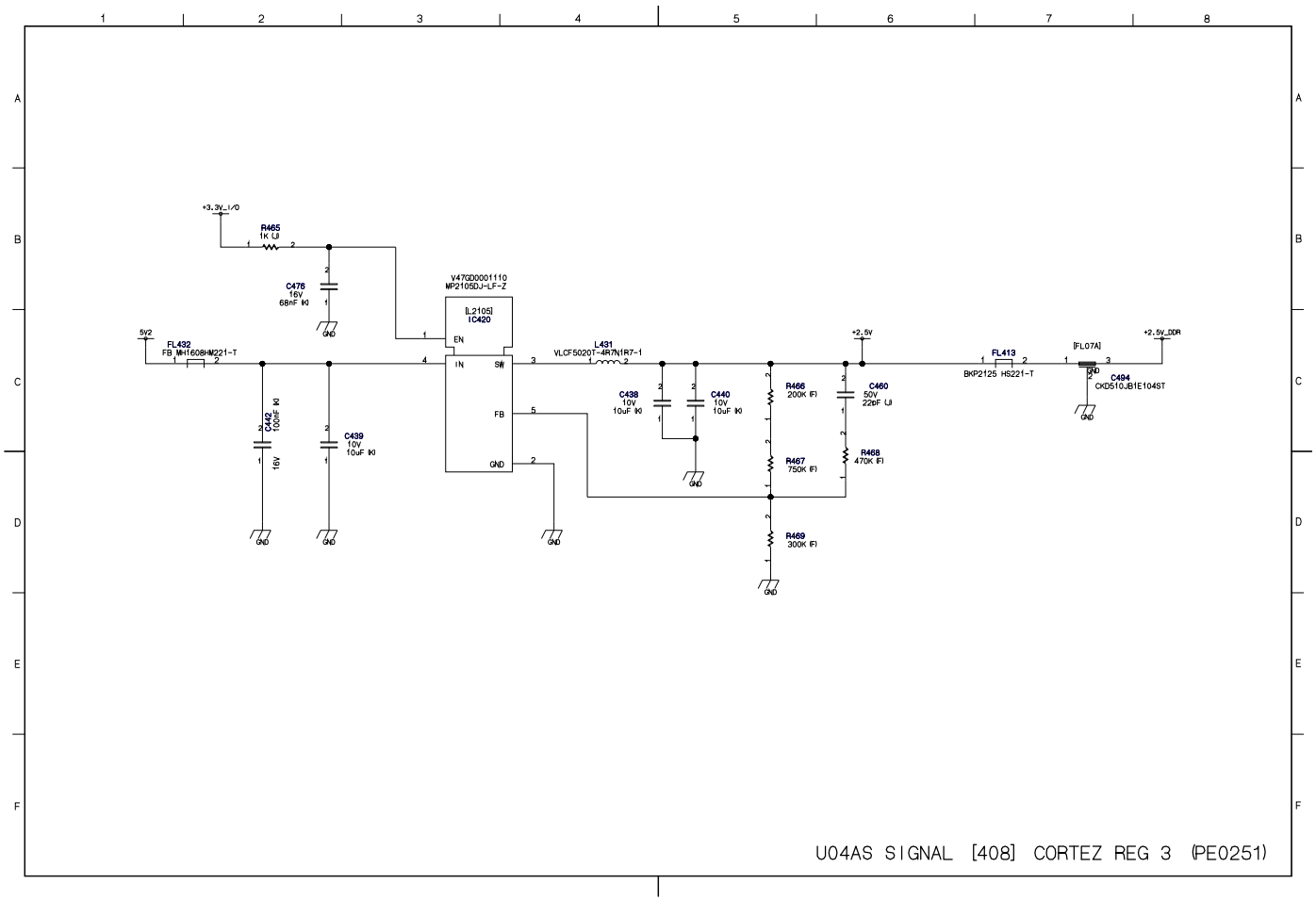


U04AS SIGNAL [404] E2P ROM OTHER (PE0251)

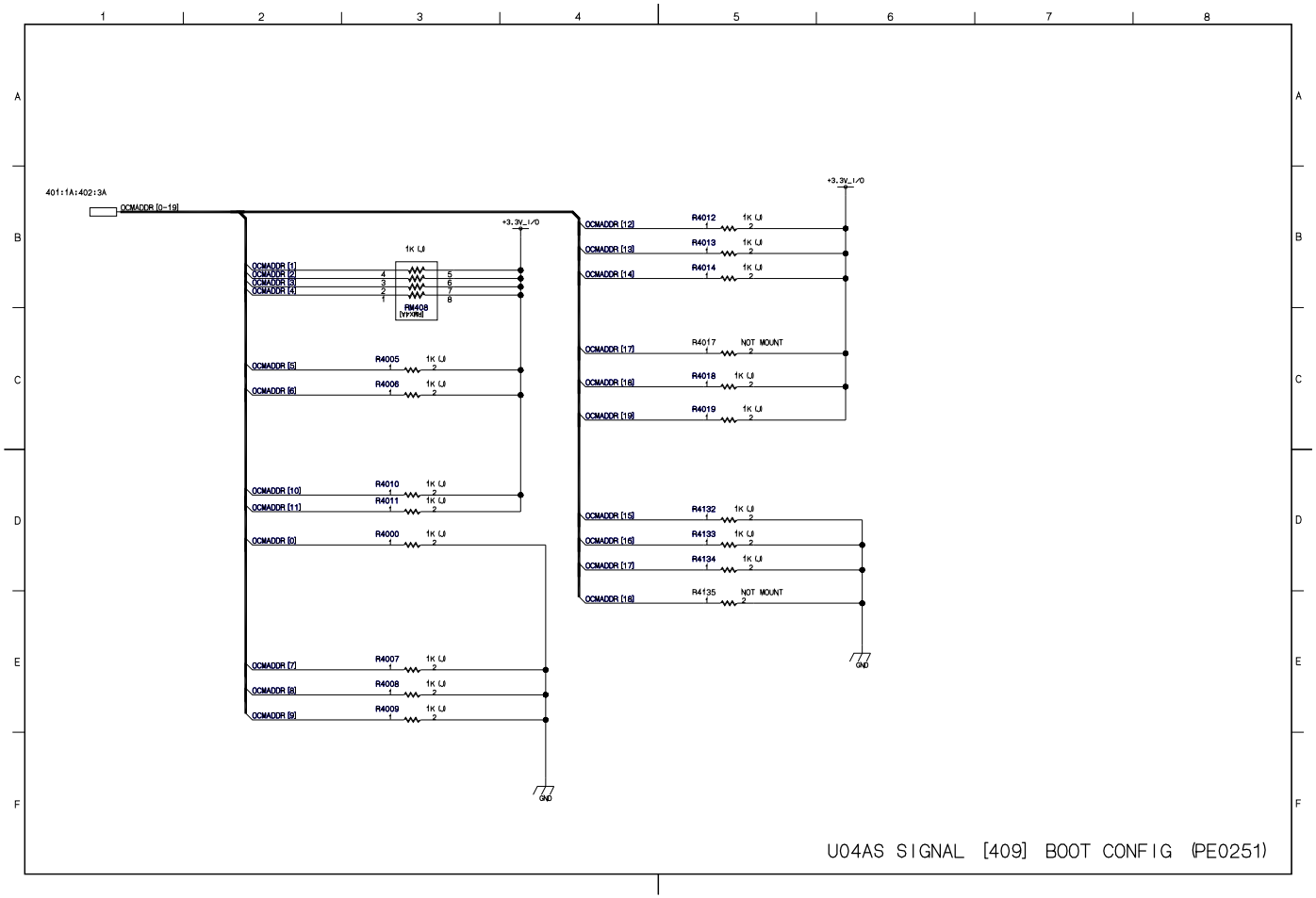

U04AS SIGNAL [406] CORTEZ REG 1 (PE0251)
+3.3V_ANG
R452 1K
C471 50V 47pF
D400 MA112-(TX)
IREG [LPOXXXEZ] IC402
ON/OFF
DCIN
DCOUT
NC
[GND]
V47GD0000706
5V2
C428 10V 1uF
C427 10V 10uF
C426 [CP] NOT MOUNT 47uF 6V
C451 16V 100nF
C458 16V 100nF
+2.5V_DDR
+1.8V_CORE
D404 [DBS]
D405 [DBS]
FL427 BKP2125 HS221-T
FL423 BKP2125 HS221-T
+3.3V_HDMI_REG
+3.3V_I/O
R495
R496
R497
R459
Q460 NOT MOUNT 2SC2712-Y (TE85R, F)
R460 NOT MOUNT
R461 NOT MOUNT
Q461 2SC4116-Y (TE85L, F) NOT MOUNT
D406 NOT MOUNT
D407 NOT MOUNT
HDMI_PWRA 302:3E:308:2D:308:2E:308:5B:401:7C
HDMI_PWRB 302:3B:308:2A:308:2B:308:5D:401:7C
FL327 BKP2125 HS221-T
+3.3V_DVI
C3201 16V 100nF
FL326 BKP2125 HS221-T
+1.8V_DVI
C3200 NOT MOUNT
+1.8V_ADC
FL428 BKP2125 HS221-T
+1.8V_DLL
FL425 BKP2125 HS221-T
+1.8V_PLL
FL426 BKP2125 HS221-T
FL424 BKP2125 HS221-T
CKD510JB1A105ST [FL07A]
C430
+2.5V
R456 1K
C473 50V 100pF
D403 RB161VA-20TR
V47GD0001109 MP2106DK-LF-Z
[L2106] IC403
SS
RUN
VIN
BST
LX
FB
COMP
Vref
PGND
SGND
C454 50V 10nF
L430 SLF7032T-4R7M1R7-2PF
D500 [SBD] RB070M-30TFTR
C441 6.3V 22uF
C459 6.3V 22uF
R451 0
R458 200
R455 10K (F)
R457 10K (F)
C429 10V 10uF
C453 50V 6.8nF
C455 50V 10nF
C436 50V 6.8nF
R450 6.8K (D)
C456 100nF 16V NOT MOUNT
C457 100nF 16V NOT MOUNT
C452 100nF 16V NOT MOUNT
GND



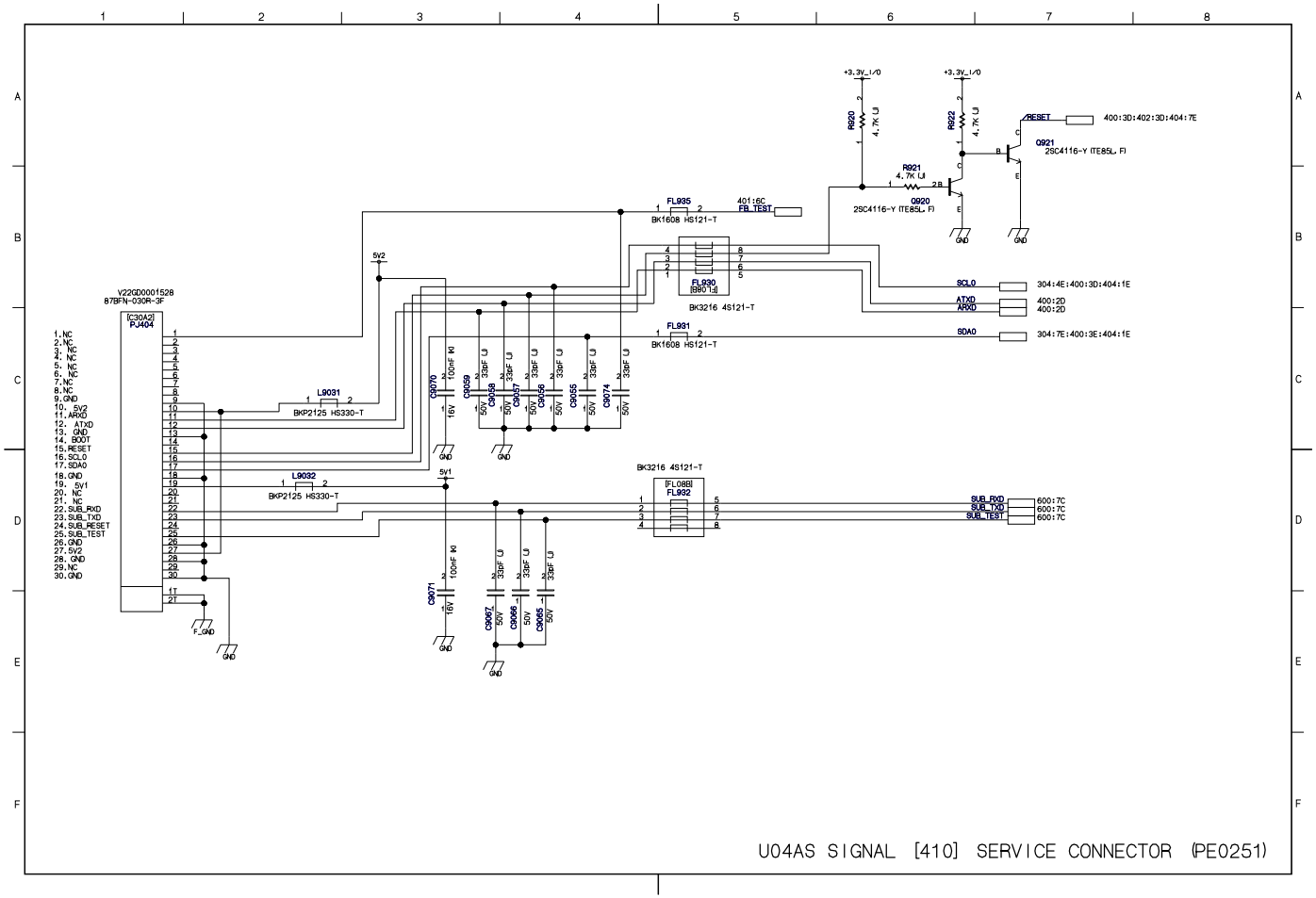
U04AS SIGNAL [407] CORTEZ REG 2 (PE0251)



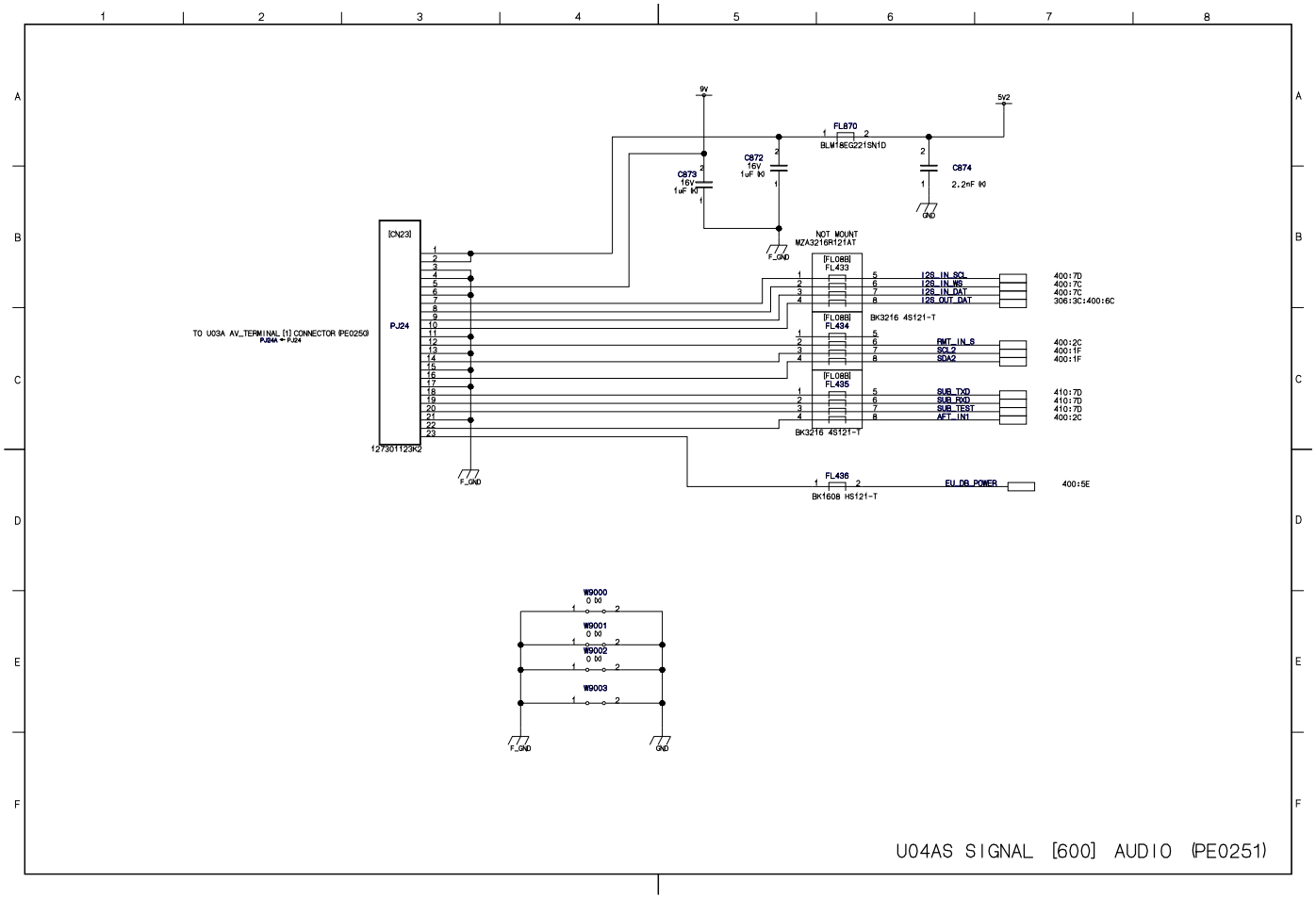
U04AS SIGNAL [408] CORTEZ REG 3 (PE0251)



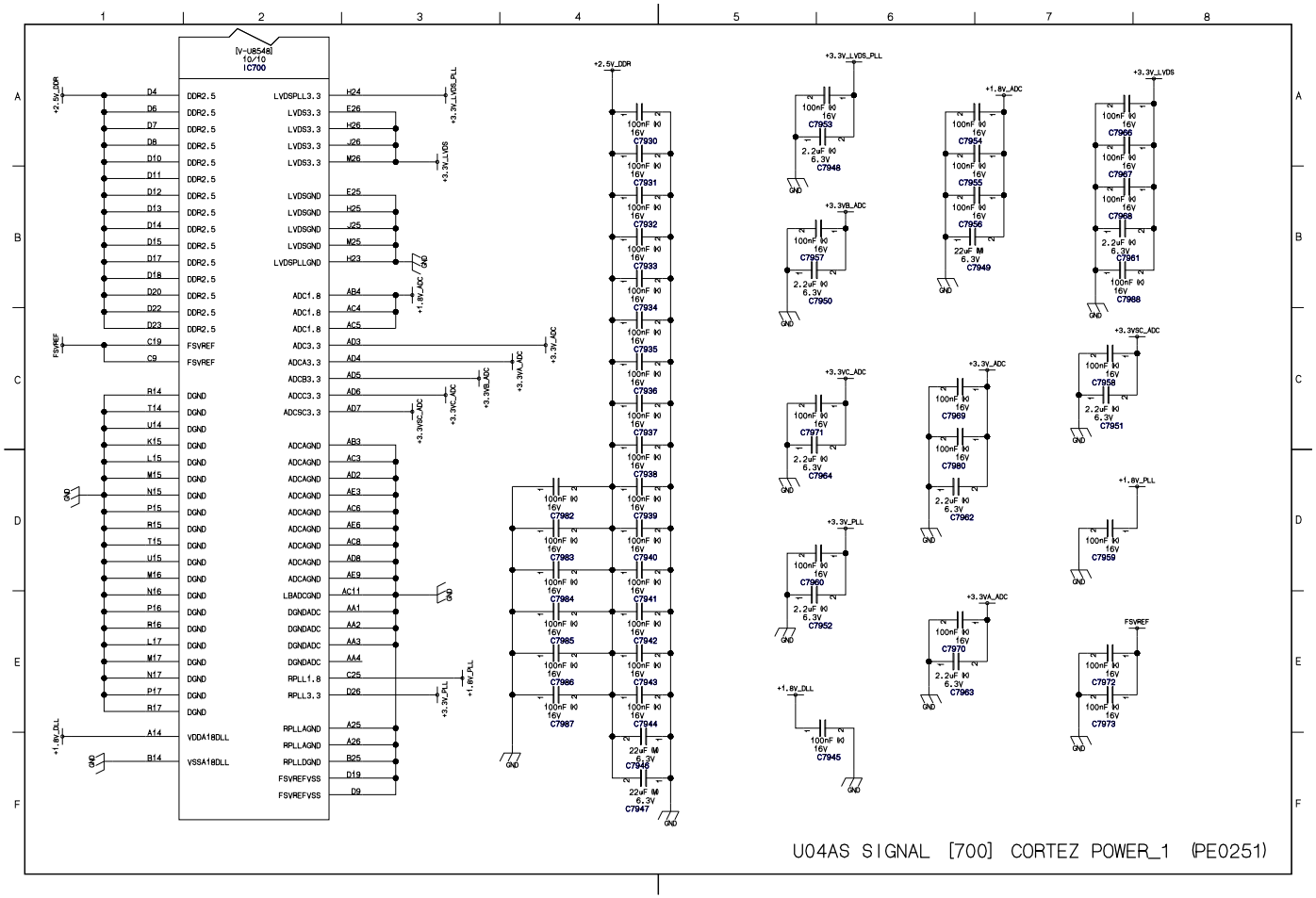
U04AS SIGNAL [409] BOOT CONFIG (PE0251)



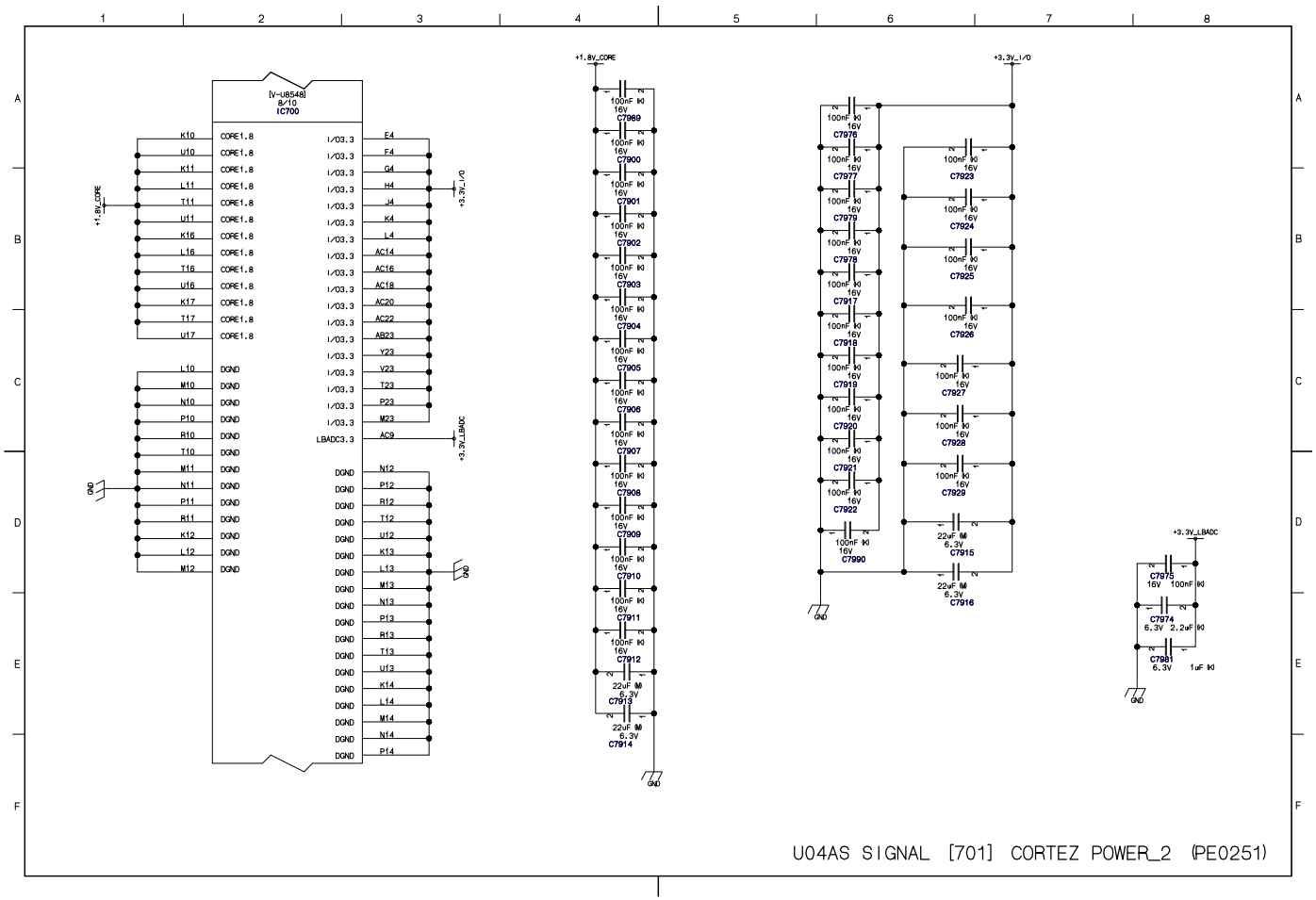
U04AS SIGNAL [410] SERVICE CONNECTOR (PE0251)

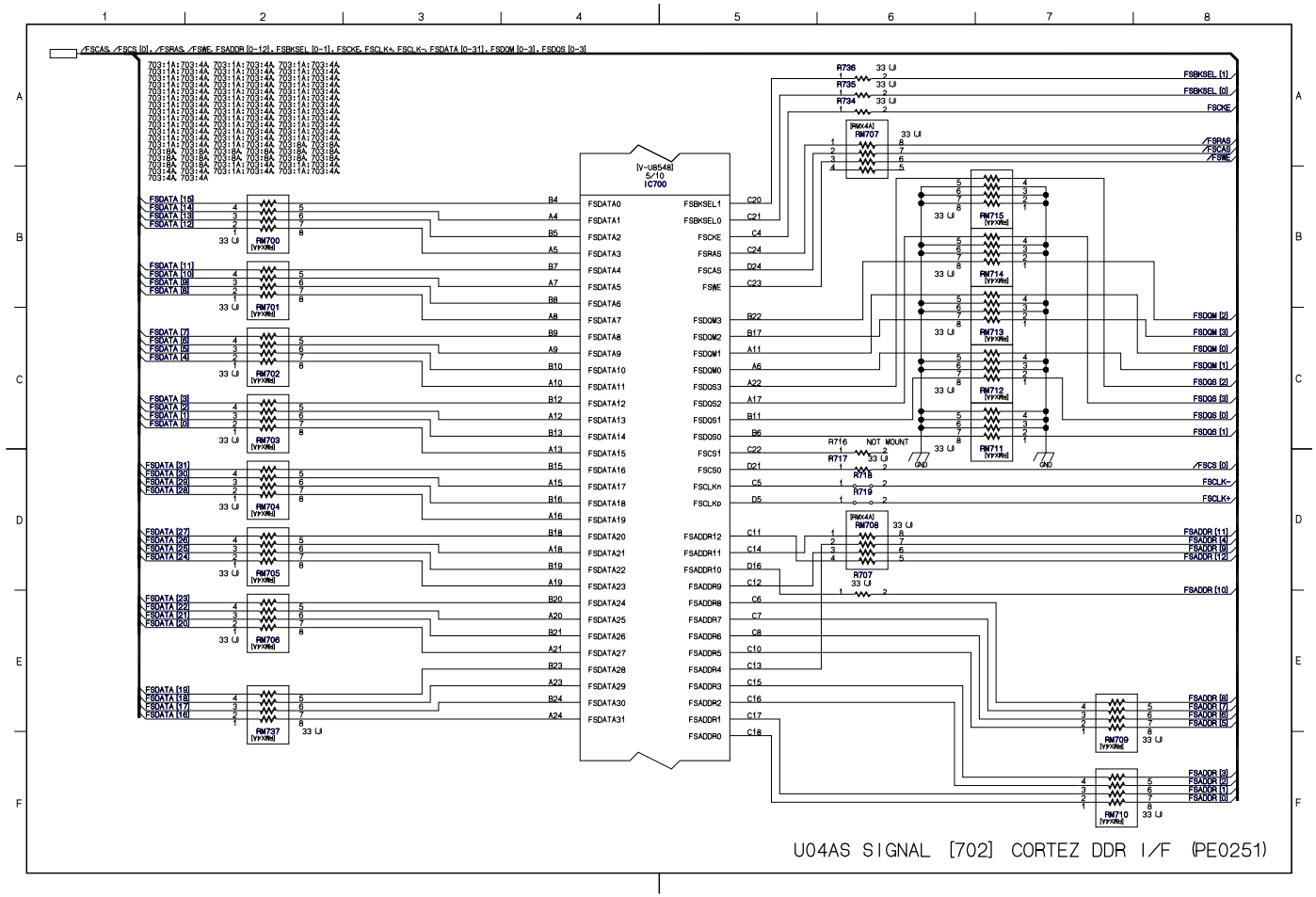


U04AS SIGNAL [600] AUDIO (PE0251)



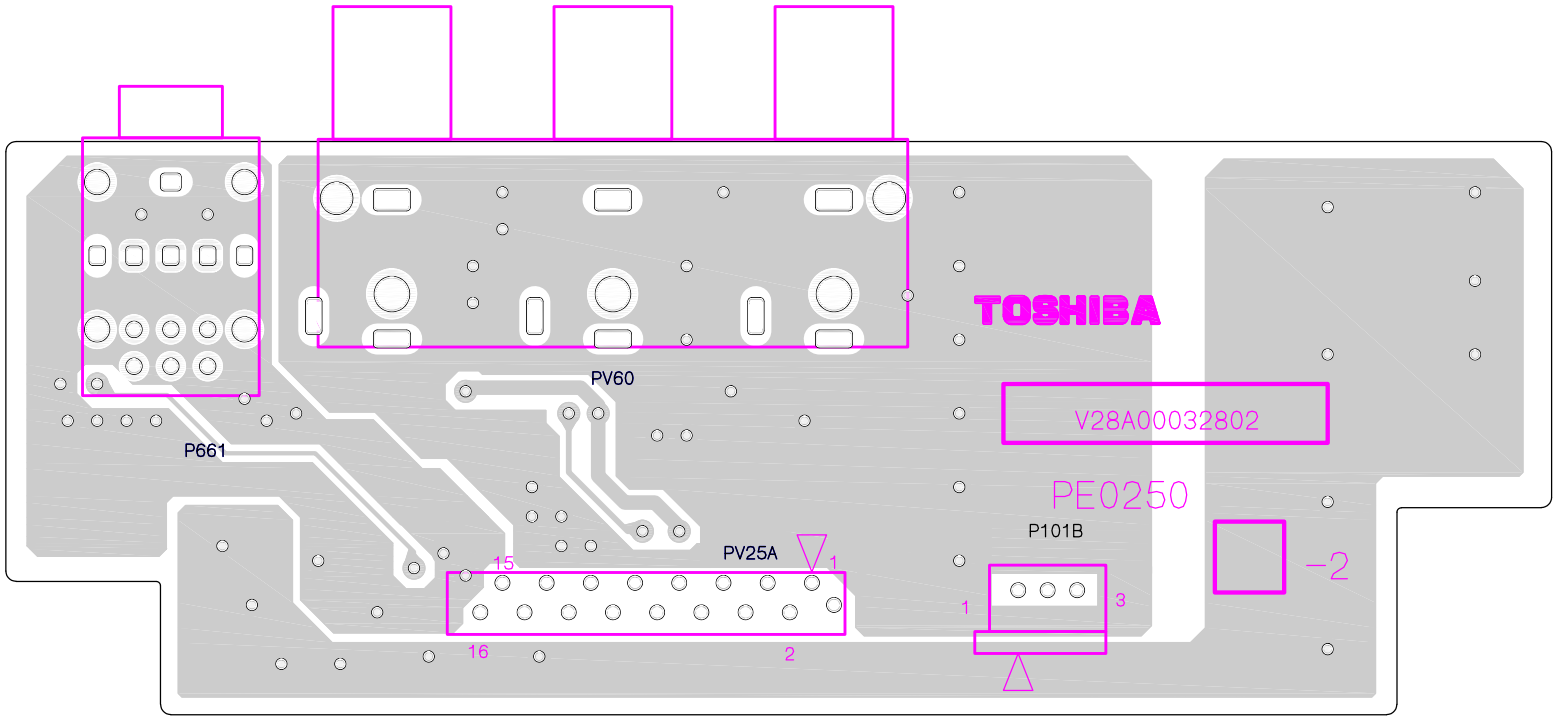
U04AS SIGNAL [700] CORTEZ POWER_1 (PE0251)


[V-U8548]
8/10
IC700
+1.8V_CORE
+3.3V_I/O
+3.3V_LBADC
GND
C7989
C7900
C7901
C7902
C7903
C7904
C7905
C7906
C7907
C7908
C7909
C7910
C7911
C7912
C7913
C7914
C7976
C7977
C7979
C7978
C7917
C7918
C7919
C7920
C7921
C7922
C7990
C7923
C7924
C7925
C7926
C7927
C7928
C7929
C7915
C7916
C7975
C7974
C7981
U04AS SIGNAL [701] CORTEZ POWER_2 (PE0251)

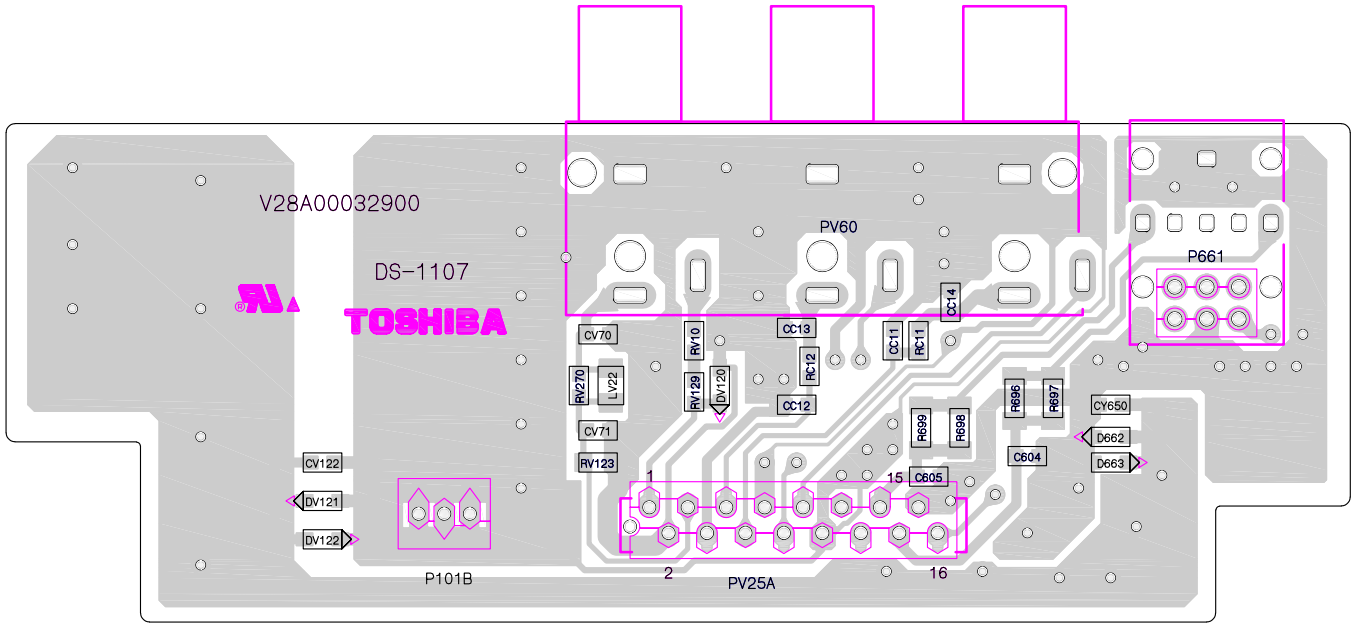


U04AS SIGNAL [702] CORTEZ DDR I/F (PE0251)

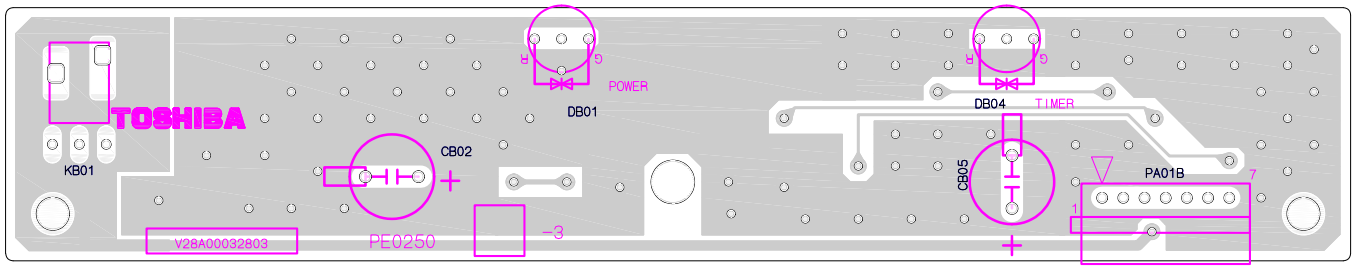
U03B FRONT_AV [Top] (PE0250)



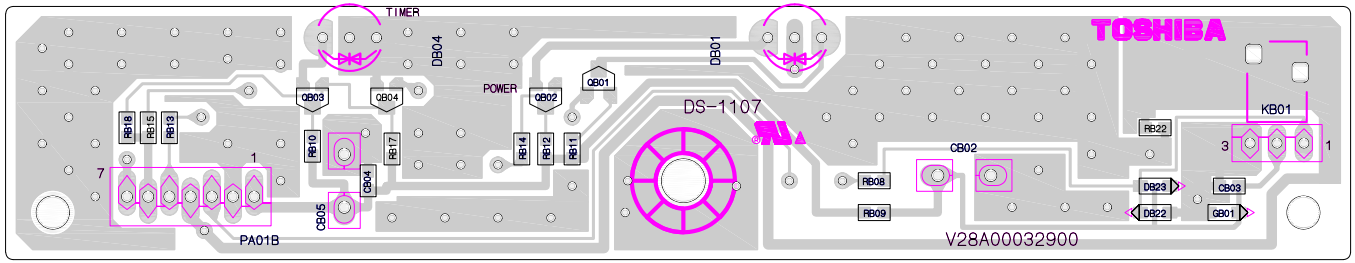
U03B FRONT_AV [Bottom] (PE0250)



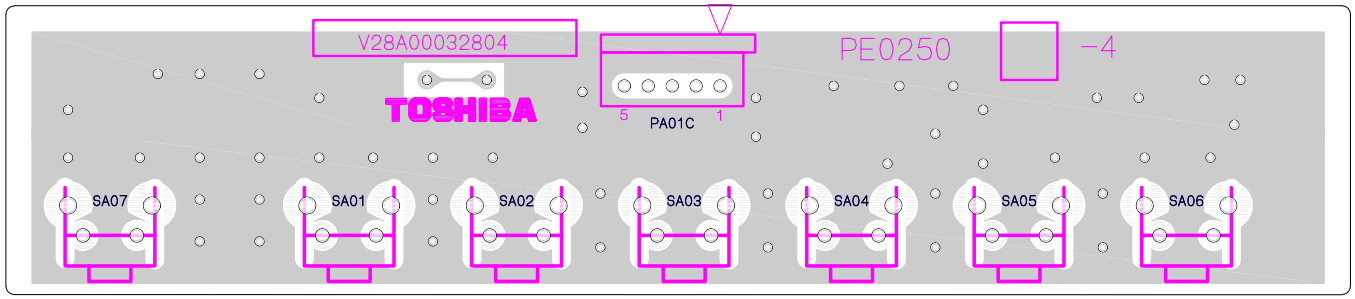
U03C LED [Top] (PE0250)



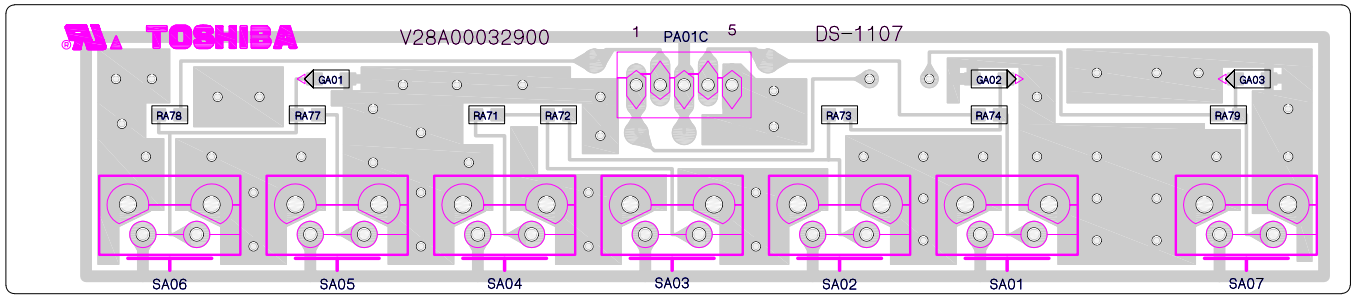
U03C LED [Bottom] (PE0250)



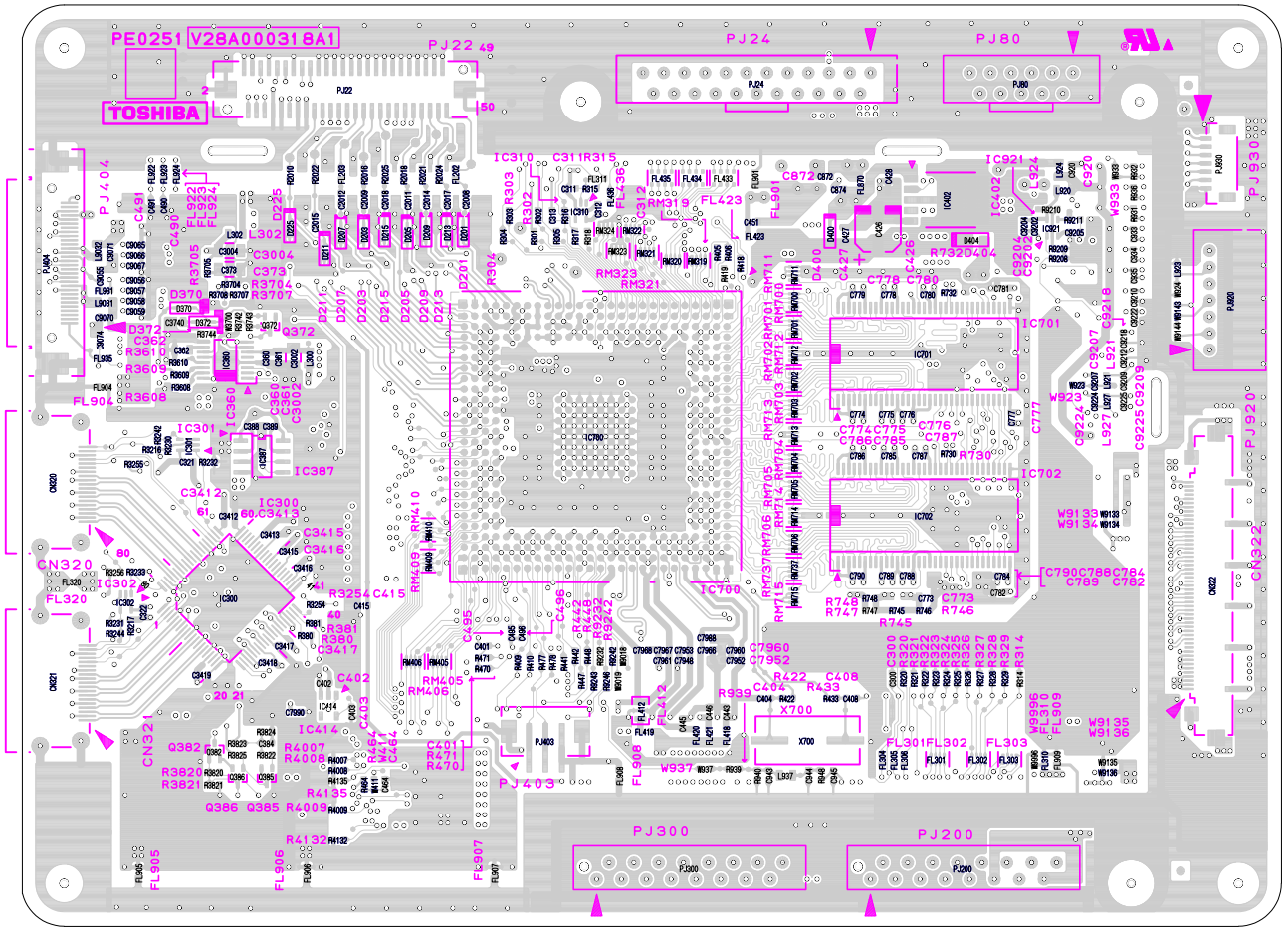
U03D KEY [Top] (PE0250)



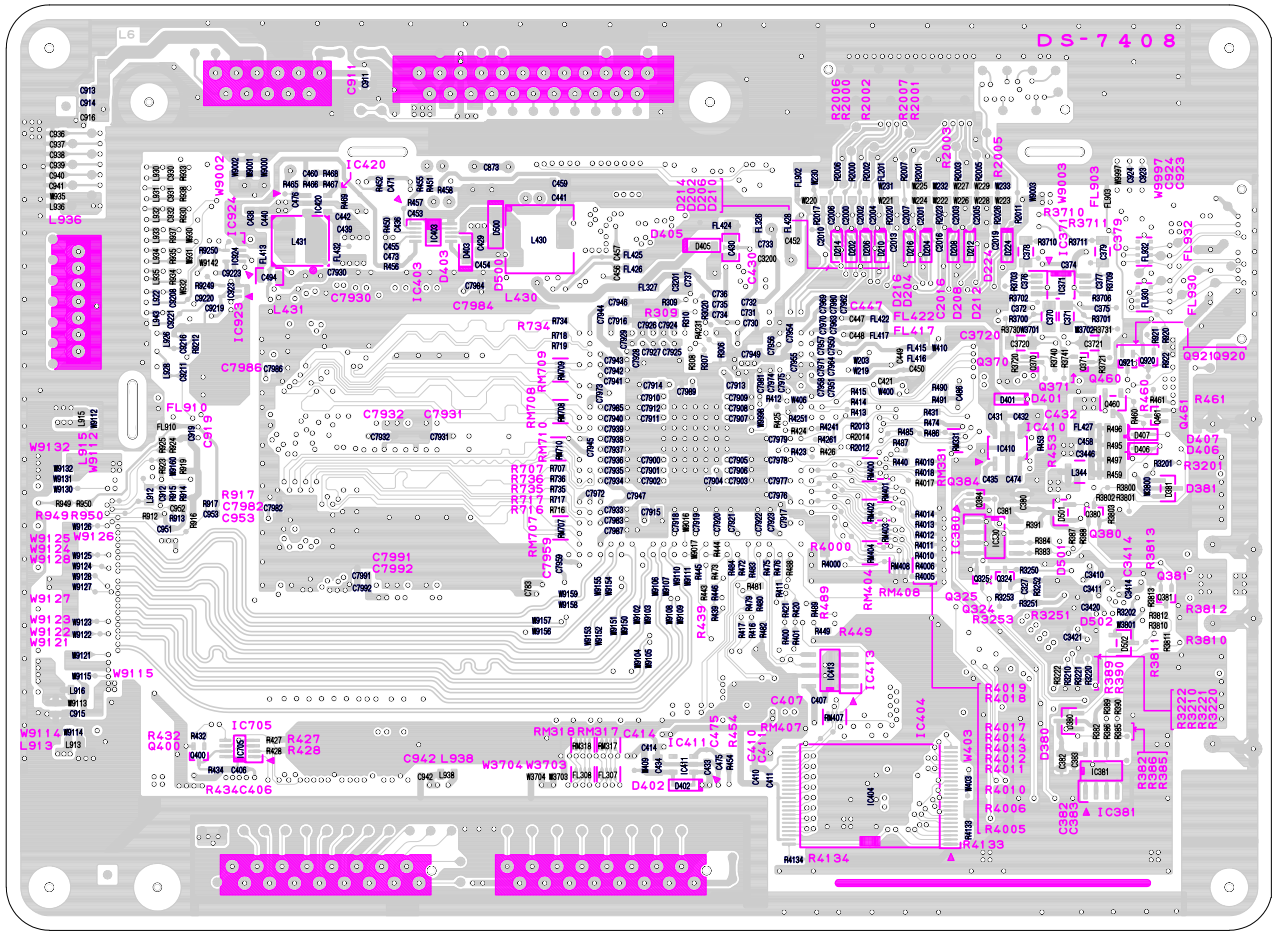
U03D KEY [Bottom] (PE0250)



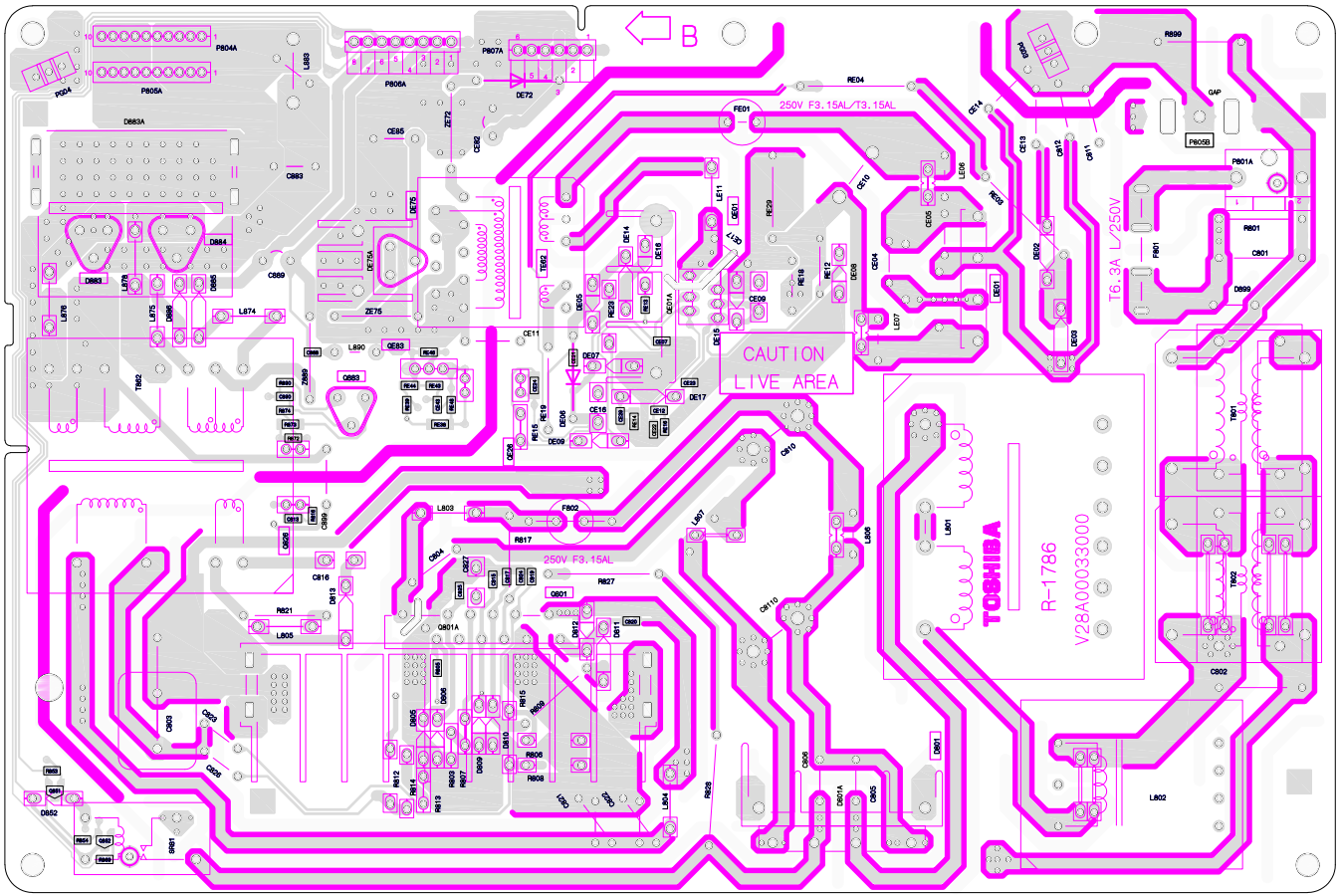
U04AS SIGNAL [Top] (PE0251)



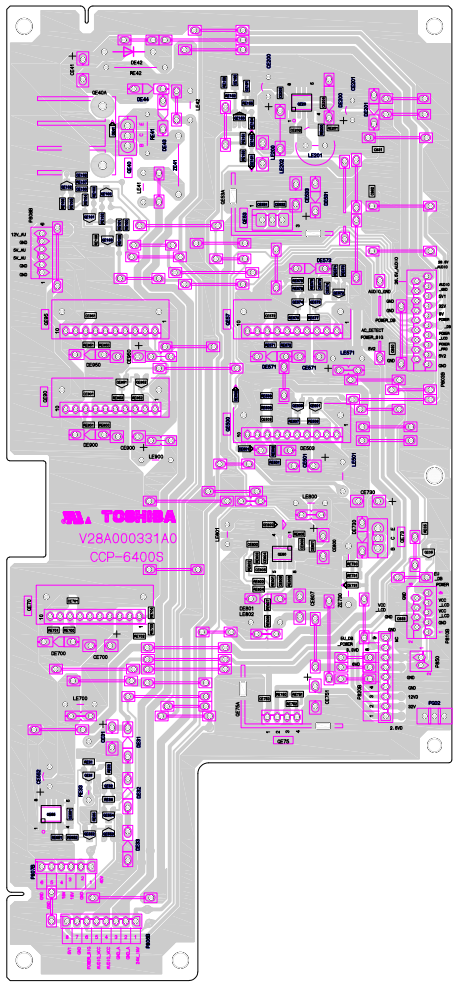
U04AS SIGNAL [Bottom] (PE0251)



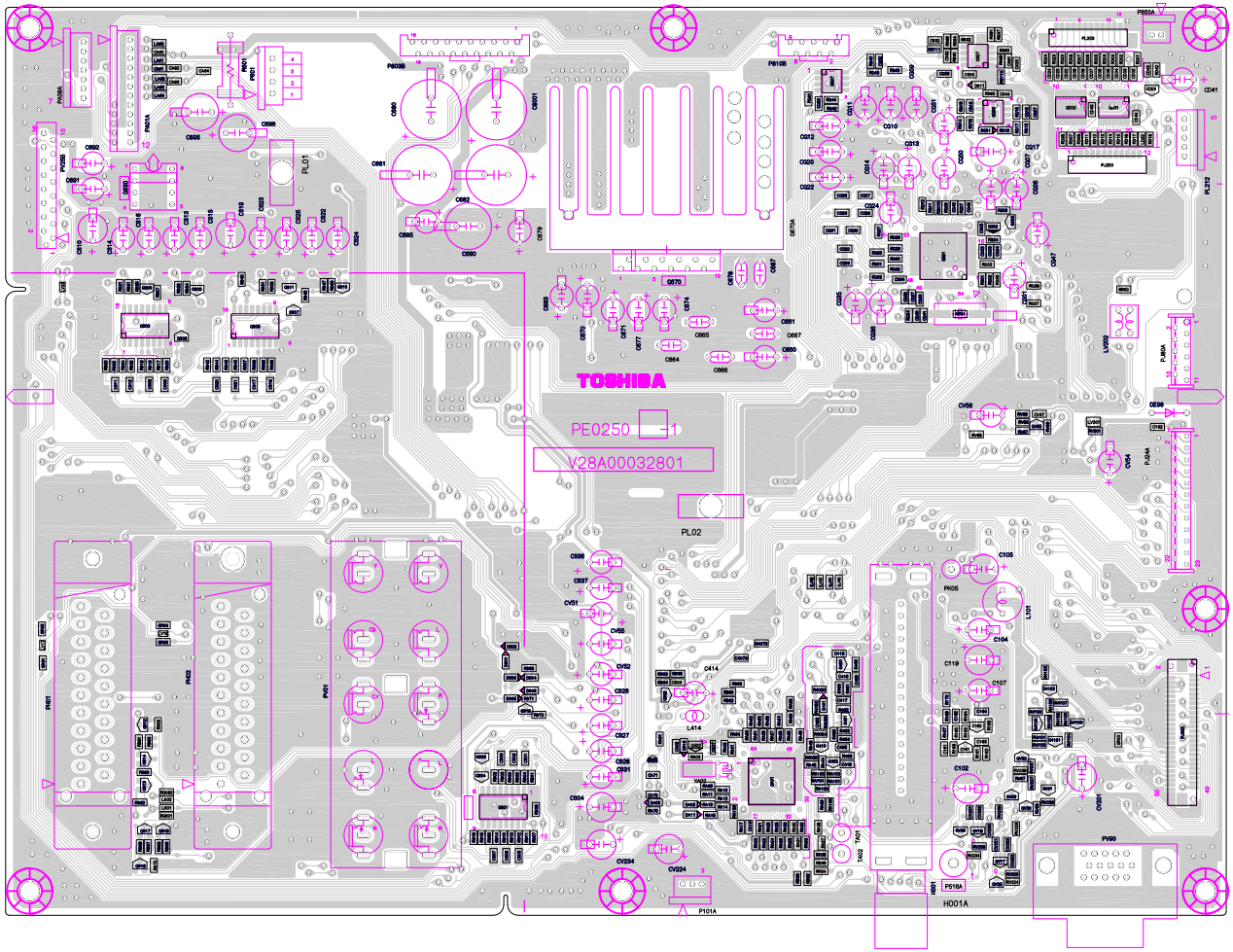
U01A POWER [Bottom] (PE0252)



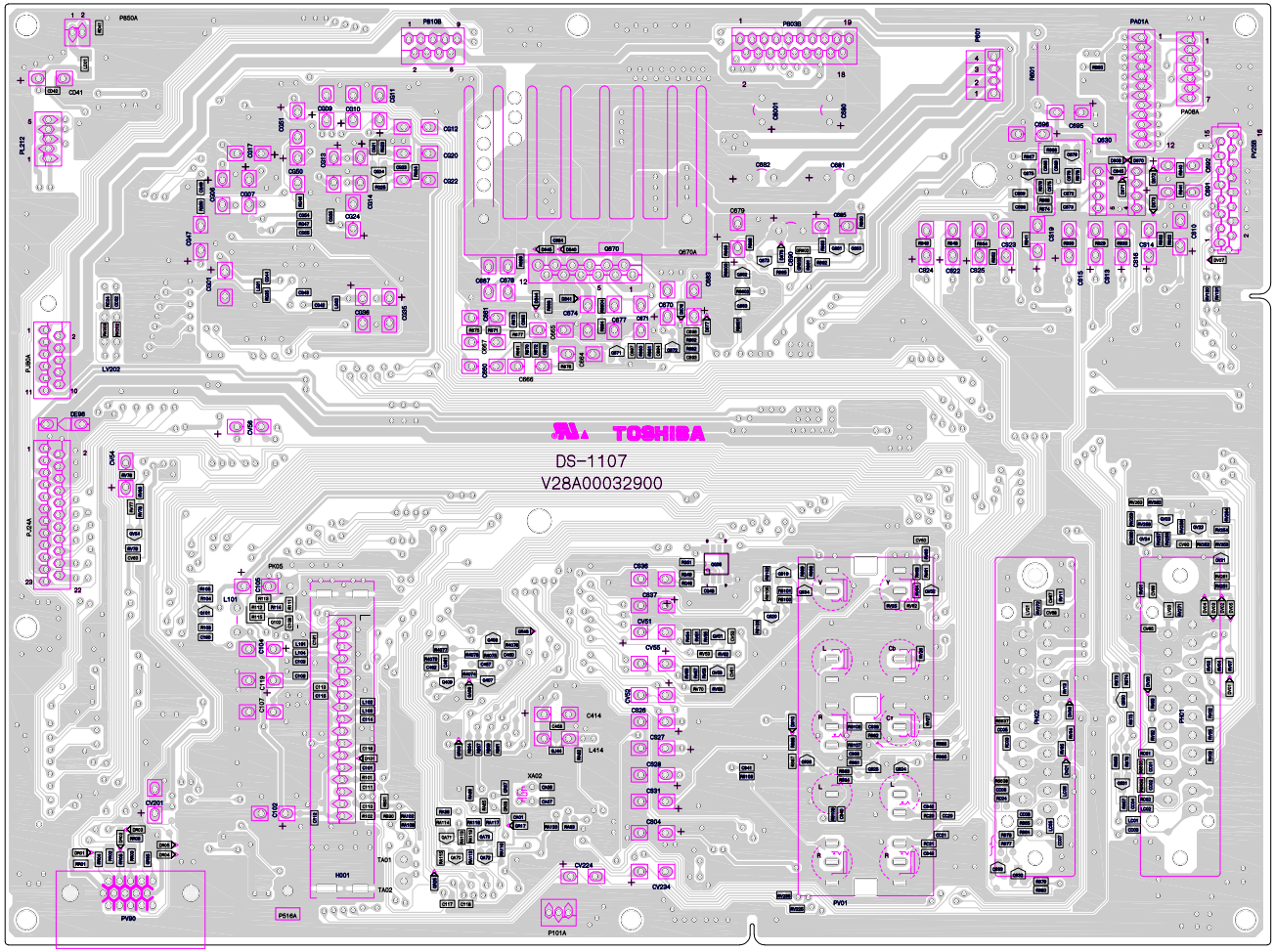
U02A LOW_B [Bottom] (PE0253)



U03A AV_TERMINAL [Top] (PE0250)



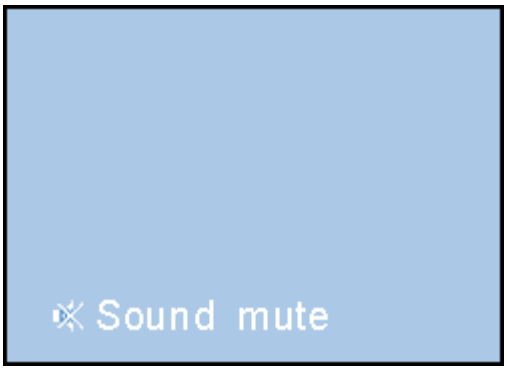
U03A AV_TERMINAL [Bottom] (PE0250)



ADJUSTMENT

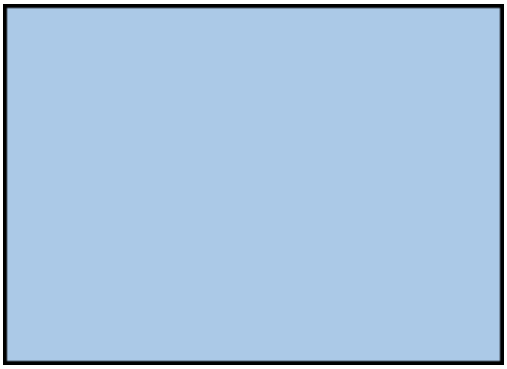
Service Mode

Entering to Service Mode



1. Set VOLUME to minimum and press button once on remote control.

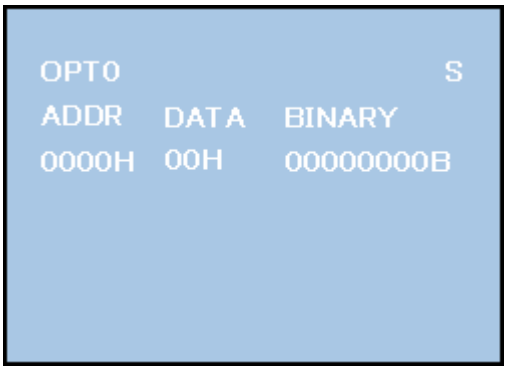
↓



2. Press button again and hold button down.

↓

Service Mode display

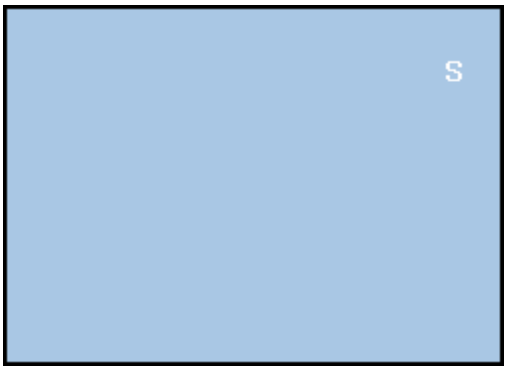


3. While holding the button, press MENU button on TV set.

Displaying the Adjustment Menu

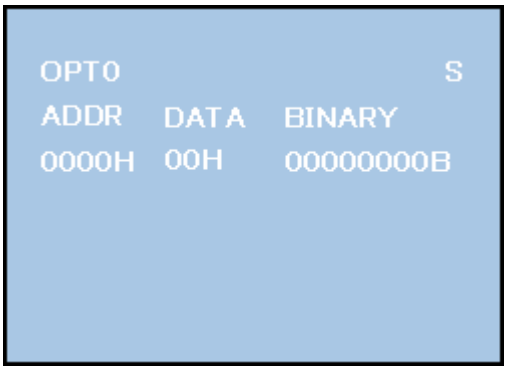
Press MENU button on TV.

Service Mode



Press ↑ ↓ Press

Adjustment Mode



Key Function in the Service Mode

The following key entry during display of adjustment menu provides special functions.

CAUTION: Never try to perform initialization unless you have changed the memory IC.

	button (on remote control)

Test signal selection	
Selection of the adjustment items	CH ▲/▼ (on TV or remote control)
Change of the data value	Volume +/- (on TV or remote control)
Adjustment menu mode ON/OFF	MENU button (on TV)
Initialization of the memory (QA02)	CALL + CH ▲ button on TV
Reset the count of operating protect circuit to "00"	CALL + CH ▼ button on TV
Turn off I2C bus communication	CALL + Volume + button on TV
"RCUT" selection	1 button
"GCUT" selection	2 button
"BCUT" selection	3 button
"CNTX" selection	4 button
"COLC" selection	5 button
"UVTT" selection	6 button
Automatic A/D Adjustment (PC, Component, Composite (PAL, NTSC))	7 button
Self diagnostic display ON/OFF	9 button

Selecting the Adjusting Item

Every pressing of CH ▲ button in the service mode changes the adjustment items in the order of table below. (▼ button for reverse order)

SETTING & ADJUSTING DATA

[SERVICE MODE]

ADJUSTING ITEMS AND DATA IN THE SERVICE MODE:

Note:

The image system data of RCUT-BDRV is different by each image format.
The PAL value is indicated in the table.
Never adjust H.POS and V.POS except PAL/WIDE mode.

Item	Name of adjustment
RCUT	R CUT OFF
GCUT	G CUT OFF
BCUT	B CUT OFF
RDRV	R DRIVE
GDRV	G DRIVE
BDRV	B DRIVE
BRTC	BRIGHTNESS CENTER
COLC	COLOR CENTER
UVTT	BASE BAND TINT
CNTX	CONTRAST MAX
VOLUX	MAX VOLUME LIMITED
PLLW0	PLL WAIT TIME
PLLW1	PLL WAIT TIME
PLLW2	PLL WAIT TIME
PLLW3	PLL WAIT TIME
PLLW4	PLL WAIT TIME
PLLW5	PLL WAIT TIME
OPT1	TV SET OPTION 1
OPT2	TV SET OPTION 2
OPT3	TV SET OPTION 3
OPT4	TV SET OPTION 4 (PANEL OPT DATA FOR VENDOR)
OPT5	TV SET OPTION 5 (PANEL OPT DATA FOR SIZE)
OPT6	TV SET OPTION 6 (HOTEL MODE)
OPT7	TV SET OPTION 7 (HOTEL MODE)
OPT8	TV SET OPTION 8 (HOTEL MODE)
TVOP	TV SET OPTION
ID	MODEL ID
BDWID	BORDER WIDTH FOR EXACT SCAN
BDHIT	BORDER HEIGHT FOR EXACT SCAN
FPLG	MASK_ENABLE (SD/HD)
FPLG2	Channel LOGO Vector Clip SW (SD)

FPLG3	Channel LOGO Vector Clip SW (HD)

Factory preset data will be loaded after setting Model ID data.
(Refer to Initialization of Memory Data of QA02 and setting data of signal board.)

Adjusting the Data

Pressing of VOLUME +/- button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

I2C Bus Off

Turn off I2C communication between IC700 and IC400.

1) Press and hold the CALL button on the remote control, then press the Volume + button on the TV.

2) Display "BUS Off" OSD.

3) I2C communication turned off.

Note:

To return Bus on status, press and hold the CALL button on the remote control, then press the Volume + button on the TV again. TV will be turned off and automatically turned on, then status will be Bus On.

Setting TVOP

Enter to service mode and select menu of TVOP by pressing P▲ or P▼ during display of adjustment menu. After selecting TVOP, press + or - to set I2C check function to disable or enable as below.

TVOP	FUNCTION DESCRIPTION	1	0 (Normal)
D5 (bit5)	I2C check between IC700 and IC400. (WDT)	Disable	Enable

Setting Panel Option Data

Panel option data is subject to OP4 and OP5.
Enter to service mode and select menu of OPT4 or OPT5 by pressing P▲ or P▼ during display of adjustment menu. After selecting OPT4 or OPT5, press ◿ + or ◿ - to set OPT4 or OPT5 value as table below.

Panel option data

Series		Model name	Panel vendor	OPT4 value	OPT5 value
C3000	EU Digital/Ready	32C3030D/3031D/ 3000P/3001P/3002P	LPL	0x01	0x05
			IPS	0x07	0x05
		37C3030D/3031D	LPL	0x01	0x06
			IPS	0x07	0x06
		37C3000P/3001P/3002P	LPL	0x01	0x06
			AUO AMVA	0x05	0x06
		42C3030D/3031D/ 3000P/3001P/3002P	LPL	0x01	0x07
			AUO	0x05	0x07

OP4

Ex. OPT4 value 0x05 indicates that panel vendor is AUO AMVA.

		OPT4							
		D7 (bit7)	D6 (bit6)	D5 (bit5)	D4 (bit4)	D3 (bit3)	D2 (bit2)	D1 (bit1)	D0 (bit0)
Panel vendor	LPL	-	-	-	-	0	0	0	1
	SHP	-	-	-	-	0	0	1	0
	CMO	-	-	-	-	0	0	1	1
	AUO PMVA	-	-	-	-	0	1	0	0
	AUO AMVA	-	-	-	-	0	1	0	1
	SAMSUNG	-	-	-	-	0	1	1	0
	IPS	-	-	-	-	0	1	1	1

OP5

Ex. OPT5 value 0x05 indicates that panel size is 32.

		OPT5							
		D7 (bit7)	**D6 (bit6)**	**D5 (bit5)**	**D4 (bit4)**	**D3 (bit3)**	**D2 (bit2)**	**D1 (bit1)**	**D0 (bit0)**
Size	32	-	-	-	-	0	1	0	1
	37	-	-	-	-	0	1	1	0
	42	-	-	-	-	0	1	1	1

Convert from Bit (Binary) to Hex

The table for converting from bit (D7-D0) to hex (0x**).

		BIT (Binary)			
High nibble		**D7**	**D6**	**D5**	**D4**
Low nibble		**D3**	**D2**	**D1**	**D0**
HEX	**0**	0	0	0	0
	1	0	0	0	**1**
	2	0	0	**1**	0
	3	0	0	**1**	**1**
	4	0	**1**	0	0
	5	0	**1**	0	**1**
	6	0	**1**	**1**	0
	7	0	**1**	**1**	**1**
	8	**1**	0	0	0
	9	**1**	0	0	**1**
	A	**1**	0	**1**	0
	B	**1**	0	**1**	**1**
	C	**1**	**1**	0	0
	D	**1**	**1**	0	**1**
	E	**1**	**1**	**1**	0

	F	**1**	**1**	**1**	**1**

E.g. If Bit D7-0 = 0**1**0**1** **1**0**1**0, Hex data is 0x**5A**.

Exit from Service Mode

Pressing POWER button to turn off the TV once.

Initialization of Memory Data of QA02 and Setting Data of Signal Unit

After replacing QA02 or signal board, the following initialization is required.

CAUTION: Never attempt to initialize the data unless QA02 has been replaced.
Whenever using new signal board to the set, setting the Model ID data according to Panel option data.

1) Enter the service mode.

2) Select menu of ID by pressing P▲ or P▼ during display of adjustment menu in the service mode.

3) Change ID data into MODEL ID to initialize by pressing ◿ + or ◿ -., refer to table below.

4) Press and hold the CALL button on the remote control, then press the CHANNEL ▲ button on the TV.

5) Initialization progress dialog including model name and panel vendor is shown. Progress status is "WRITING".

6) Progress status is changed "OK" and power cycle (automatically). Then QA02 initialization has been completed.

7) Enter the service mode and select version check mode. Confirm if model name and model id set is correct. If not, repeat steps 1) to 6).

Note:

In case initialization by setting wrong MODEL ID is done, there is a possibility of abnormal display.

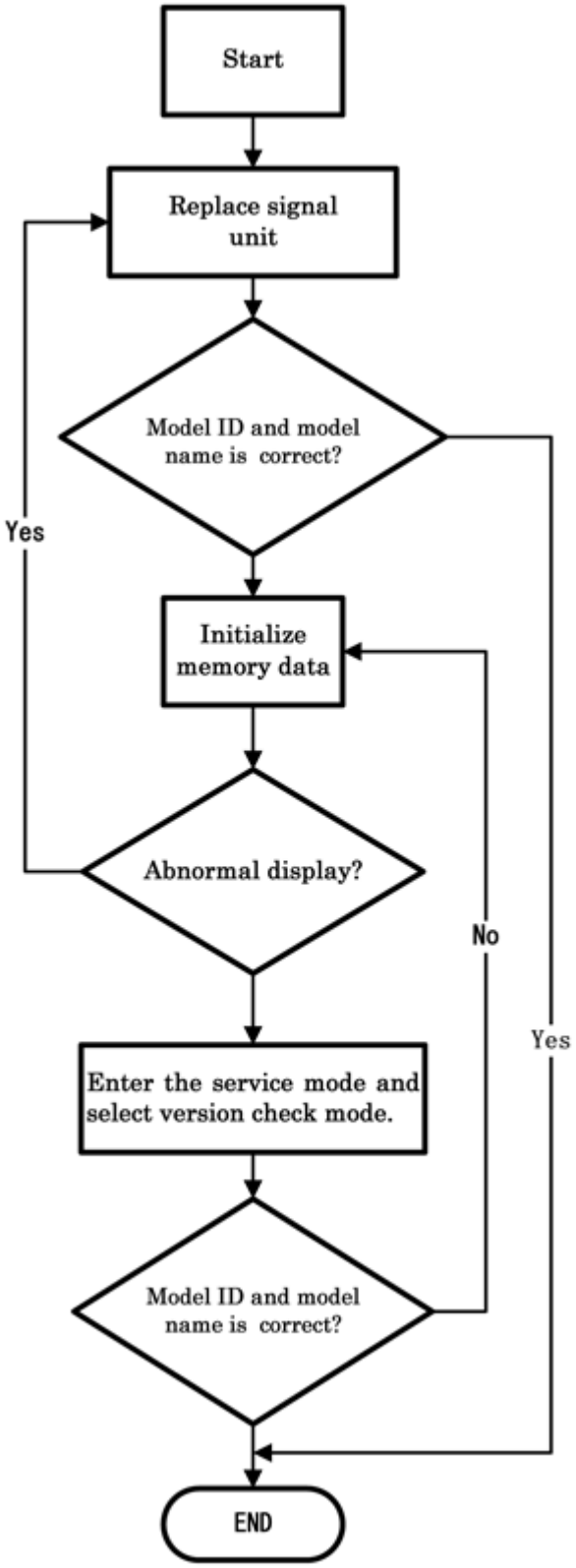
8) Set I2C check function of TVOP to enable.

9) Check the picture carefully. If necessary, adjust any adjustment item above. Perform "Auto tune" on the owner's manual.

MODEL ID (HEX)	Model name	Panel vendor
0x01	32C3000P/3001P/3002P	LPL
0x02	32C3000P/3001P/3002P	IPS
0x03	37C3000P/3001P/3002P	LPL
0x04	37C3000P/3001P/3002P	AUO
0x05	42C3000P/3001P/3002P	LPL
0x06	42C3000P/3001P/3002P	AUO
0x07	32C3030D/3031D	LPL
0x08	32C3030D/3031D	IPS
0x09	37C3030D/3031D	LPL
0x10	37C3030D/3031D	IPS
0x11	42C3030D/3031D	LPL
0x12	42C3030D/3031D	AUO
0x13		
0x14		
0x15		
0x16		
0x17		
0x18		
0x19		
0x20		
0x21		
0x22		
0x23		

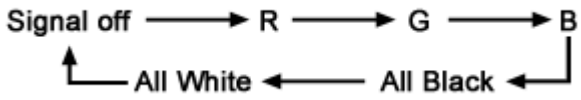
0x24		
0x25		
0x26		
0x27		
0x28		
0x29		
0x30		
0x31		
0x32		
0x33		

Initializing Data setting flowchart after replacing the Signal Unit



Test Signal Selection

Every pressing of ⏎ button on the remote control changes the built-in test patterns on screen as described below in Service Mode.

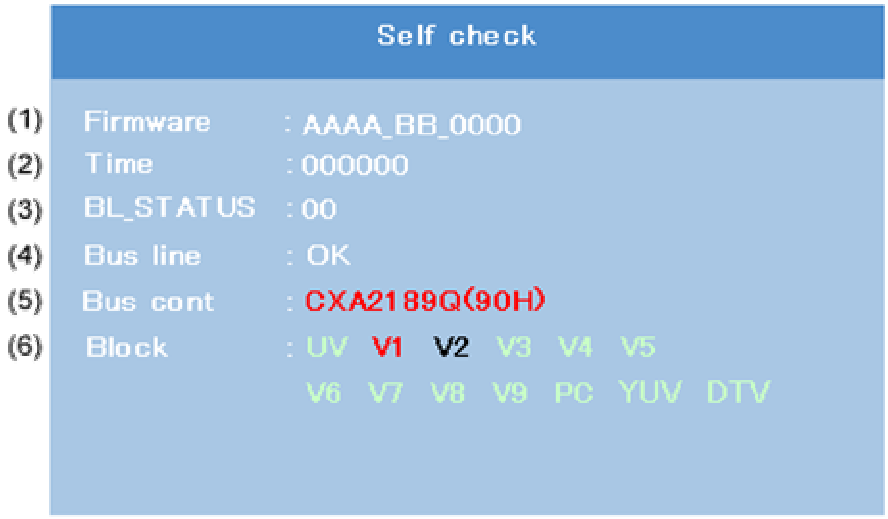


Picture	Signal
	Red raster
	Green raster
	Blue raster
	All Black
	All White

Self Diagnostic Function

1. Press "9" button on remote control during display of adjustment menu in the service mode. The diagnosis will begin to check if interface among IC's is executed properly.
2. During diagnosis, the following displays are shown.

* Self check display and Item are subject to the models.


Self check
(1) Firmware : AAAA_BB_0000
(2) Time : 000000
(3) BL_STATUS : 00
(4) Bus line : OK
(5) Bus cont : CXA2189Q(90H)
(6) Block : UV V1 V2 V3 V4 V5
V6 V7 V8 V9 PC YUV DTV

(1) Firmware :
Version information of microprocessor
Series name (AAAA) and market area (BB) and software program version (0000)

(2) Time : Total hour of turn the TV on. (Unit : H)

(3) BL_STATUS :
Counter for saving BackLight on error.
This value is counted till 99 (Decimal).

(4) Bus line : -- "OK" is normal
SCL-GND (Red indication) : SCL-GND short circuit
SDA-GND (Red indication) : SDA-GND short circuit
SCL-SDA (Red indication) : SCL-SDA short circuit

(5) Bus cont : --- "OK" is normal.
NG is abnormal (Red indication).
When the abnormal status is detected, type name of semiconductor is indicated in red colour.

(6) Block
UV : TV reception mode
V1 - V9 : VIDEO 1-9 input mode
PC : PC mode
YUV : YUV mode
DTV : DTV mode

UV	RF
V1	1 (SCART (FULL))
	2

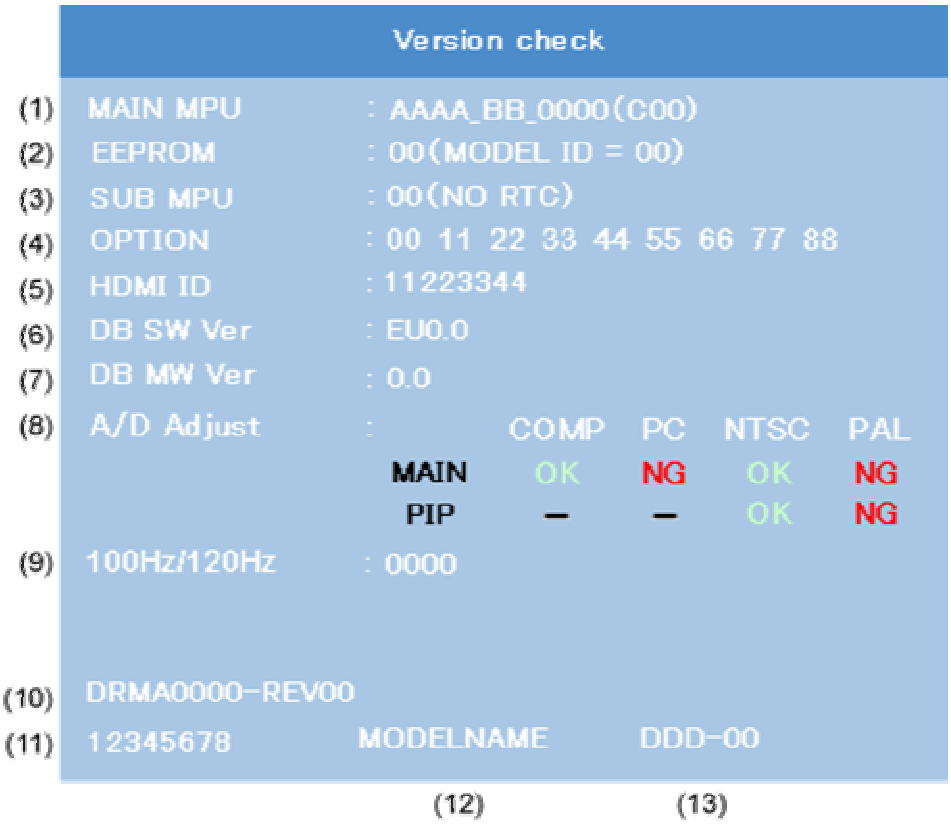
V2	(SCART (S+AV))
V3	3 (Component/Composite)
V4	HDMI1
V5	HDMI2
V6	--
V7	--
V8	--
V9	--
PC	PC
YUV	--
DTV	DTV (Digital Only)

Version Check Mode

1. Press "9" button twice on remote control during display of adjustment menu in the service mode.
   The version of main MPU will be checked.

2. During Version Check, the following displays are shown.

* Version check display and Item are subject to the models.


Version check
(1) MAIN MPU : AAAA_BB_0000(C00)
(2) EEPROM : 00(MODEL ID = 00)
(3) SUB MPU : 00(NO RTC)
(4) OPTION : 00 11 22 33 44 55 66 77 88
(5) HDMI ID : 11223344
(6) DB SW Ver : EU0.0
(7) DB MW Ver : 0.0
(8) A/D Adjust : COMP PC NTSC PAL
MAIN OK NG OK NG
PIP — — OK NG
(9) 100Hz/120Hz : 0000
(10) DRMA0000-REV00
(11) 12345678 MODELNAME DDD-00
(12)
(13)

(1) MAIN MPU :

Version information of microprocessor

Series name and Code Program Version (4 figure number) and OSD Version (2 figure number).

(2) EEPROM :

Version information of EEPROM : Display 1 byte data.

(3) SUB MPU :

Version information of SUB MPU : Display 1 byte data.

(4) OPTION :

Option information : Display six numbers of 1 byte data.

(5) HDMI ID :

HDMI ID information : Display 4 byte data.

(6) SW Ver

Version information of DB software as Toshiba release. (Only digital model.)

(7) MW Ver

Left side is Application and UI version information of DB software. (Only digital model.)

Right side is Firmware (Driver) version information of DB software. (Only digital model.)

(8) A/D Adjust

A/D adjustment item.

--MAIN : It's enable only in double Window model. A/D adjustment status of main picture.

--PIP : It's enable only in double Window model. A/D adjustment status of sub picture.

--COMP : Component input

--PC : PC input

--NTSC : NTSC (60 Hz) SD signal (composite input).

--PAL : PAL (50 Hz) SD signal (composite input).

--OK : A/D adjustment set correctly.

--NG : A/D adjustment set incorrect.

-- : A/D adjustment is not needed. Because its picture format isn't used.

(9) 100 Hz FPGA Software Version

It's enable only in 100 Hz drive panel model.

Upper 2 figure number means function versions of double frequency convert.

Lower 2 figure number means function version of vector complement.

(10) Memory Data Version

Version information of EEPROM.

DRMA**** means model number of EEPROM.

REV** means version of EEPROM.

(11) CD number

CD information (ascii code). : Display 4 byte data.

(12) Model Name

Model name information (ascii code). : Display 7 byte data.

(13) LCD Panel Vendor information display

The following Panel Vendor (DDD) and screen size (00) are displayed.

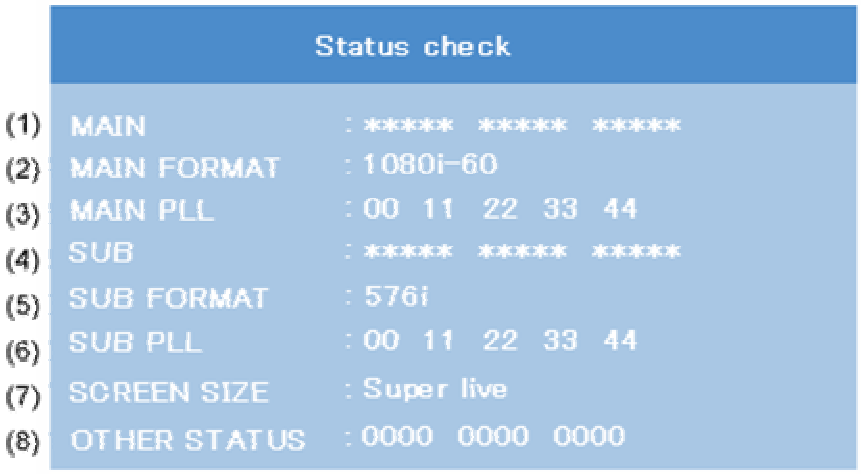
Example : AUO-32 indicates that Vendor is AUO and Screen Size is 32 inch

Status Check Mode

1. Press "9" button thrice on remote control during display of adjustment menu in the service mode.
   The status of this model will be checked.

2. During Status Check, the following displays are shown.

* Status check display and Item are subject to the models.


Status check
(1) MAIN : ***** ***** *****
(2) MAIN FORMAT : 1080i-60
(3) MAIN PLL : 00 11 22 33 44
(4) SUB : ***** ***** *****
(5) SUB FORMAT : 576i
(6) SUB PLL : 00 11 22 33 44
(7) SCREEN SIZE : Super live
(8) OTHER STATUS : 0000 0000 0000

(1) MAIN :
Main source information :
Display RF position number (0 - 99) on the main screen, or Input Source (EXT1/2/3/HDMI etc.)

(2) MAIN FORMAT :
Display Video and PC format information

(3) MAIN PLL :
Main PLL information : Display 1 byte data at five.

(4) SUB :
Sub source information :
Display RF position number (0 - 99) on the Sub screen, or Input Source (EXT1/2/3/HDMI etc.)
This item displays only Double window model.

(5) SUB FORMAT :
Display Video and PC format information
This item displays only Double window model.

(6) SUB PLL :
Sub PLL information : Display 1 byte data at five.
This item displays only Double window model.

(7) SCREEN SIZE :
Display the screen size as follows.

Exact Scan
Wide
Super Live 2

Cinema 2
4:3
Super Live 1
Cinema 1
Subtitle
14:9

Note:

Exact Scan is shown only for 1080p panel model with video input mode except pc.

(8) OTHER STATUS :

Other status information : Display three numbers of 2 byte data.

Setting Hotel Mode

Enter to service mode and select Hotel Mode menu by pressing P▲ or P▼.
After selecting Hotel Mode, press ◿ + to enter details setting in Hotel Mode.

To select menu, press P▲ or P▼ and press OK to enter the adjustment menu of table bellow.
To move the cursor in the adjustment, press ◿ + or ◿ -.

1. By pressing P▲ or P▼, OPT2 setting will change the value either 1 or 0 on selected items as follows;

OP2

OPT2	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7)	- (no use)	-	-
D6 (bit6)	- (no use)	-	-
D5 (bit5)	FRONT Key	Disable	Enable
D4 (bit4)	All keys except input selector key (Video/TV)	Disable	Enable
D3 (bit3)	User remote control operation	Disable (Service mode and Supere User mode may possible to setting only)	Enable
D2 (bit2)	Disable SET UP MENU except	Disable	Enable

	language. (tuning SETUP MENU)	(Display the language only)	
D1 (bit1)	Disable SETUP MENU	Disable	Enable
D0 (bit0)	HOTEL Mode	On (Enable the setting of D1 from to D7)	Off (Normal)

VOLUX

Set VOLUX as following.

1) Set speaker volume to 100. (Any value is OK, but 100 is better to check sound level.)

2) Down value of VOLUX until finding suitable sound volume level.

VOLUX	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7) ~ D0 (bit0)	Max Limiter of Volume Control	0x00 ~ 0x7F (Normal: 0x7C)	

OP6

OPT6	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7)	Enable mode that POS or VIDEO program number will be appeared in forced when turn ON the main power	Enable	Disable
D6 (bit6) ~ D0 (bit0)	POS or VIDEO program number	0 ~ 127 [decimal] (Normal: 0) POS number: 0 ~ 99 VIDEO number: 100 ~ 127 (DTV = 100, VIDEO = 101, VIDEO = 102..) 100 is used as ATV when DTV option is disable.	

OP7

OPT7	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7)	Enable mode that speaker volume will be set in forced when turn ON the main power	Enable	Disable
D6 (bit6) ~	Forced speaker volume	0 ~ 100 [decimal] (Normal: 0)	

D0 (bit0)		Value above 100 is no effect.

OP8

OPT8	FUNCTION DESCRIPTION	1	0 (Normal)
D7 (bit7) ~ D3 (bit3)	- (no use)	-	-
D2 (bit2)	Enable mode that picture mode will be set in forced when turn ON the main power	Enable (Display the language only)	Disable
D1 (bit1) ~ D0 (bit0)	Forced picture mode	0 [dec]: Dynamic (mode-1) (Normal) 1 [dec]: Standard (mode-2) 2 [dec]: Mild (mode-3) 3 [dec]: Memory (mode-M)	

LED Indication

The Green and Red LEDs on the TV (at the bottom center of the TV) indicate the TV's status, as described below.

- Red ON (solid) and Green OFF = The TV power cord is plugged in.
- Green ON (solid) and Red ON = The On timer is operating.

	LED Indication	Condition	Solution
1	Green is OFF; Red blinks continuously at 0.5-second intervals.	Abnormal operation	Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV.
2	Green is OFF; Red blinks continuously at 1-second intervals.	Abnormal operation of BUS line.	Turn OFF the TV and unplug the power cord. Plug the power cord in again and turn ON the TV.

PARTS LIST

Precaution

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION" FOR DIRECT VIEW CTV ONLY, "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and
should be replaced only with types identical to those in the original circuit or specified in the parts list.

The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the SAFETY PRECAUTION and PRODUCT SAFETY NOTICE.

Do not degrade the safety of the receiver through improper servicing.

Note:

- The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.
- The PC board assembly with ✱ mark is no longer available after the end of the production.

Abbreviations

Capacitors	CD	:	Ceramic Disk
Resistors	CF	:	Carbon film
	OMF	:	Oxide Metal Film
	PF	:	Plastic Film
	CC	:	Carbon Composition
	VR	:	Variable Resistor

EL : Electrolytic
MF : Metal Film
FR : Fusible Resistor

All CD and PF capacitors are ±5 %, 50 V and all resistor, ±5 %, 1/6 W unless otherwise noted.

U03C LED (PE0250)

	Location	Parts No.	Description
*	U03C	75005870	PC BOARD ASSY, PE0250A3, LED
	CB02	75005969	CAPACITOR ELECTROLYTIC 10V 221M, ESRE100ETC2
	CB03	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CB04	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CB05	75005969	CAPACITOR ELECTROLYTIC 10V 221M, ESRE100ETC2
	DB01	75005873	DIODE, LED, 339-1SURSYGW/S530-A3/S195
	DB04	75005873	DIODE, LED, 339-1SURSYGW/S530-A3/S195
	DB22	23362251	DIODE, SDS511(SOD-323)
	DB23	23362251	DIODE, SDS511(SOD-323)
	GB01	23362042	DIODE, ZENER, UDZS6.8B
	KB01	75002236	IC, GP1UE261RKVF
	PA01B	23713949	CONNECTOR, S7B-PH-K-S(LF)
	QB01	23205357	TRANSISTOR, KTA1504S Y/P
	QB02	23205347	TRANSISTOR, KTC4075Y/P
	QB03	23205347	TRANSISTOR, KTC4075Y/P
	RB08	76011470	RESISTOR, CHIP, 1/20W 47 OHM J
	RB09	76011470	RESISTOR, CHIP, 1/20W 47 OHM J
	RB10	76011221	RESISTOR, CHIP, 1/20W 220 OHM J
	RB11	76011821	RESISTOR, CHIP, 1/20W 820 OHM J
	RB12	76011221	RESISTOR, CHIP, 1/20W 220 OHM J
	RB13	76011153	RESISTOR, CHIP, 1/2OW 15K OHM J
	RB14	76011153	RESISTOR, CHIP, 1/2OW 15K OHM J
	RB18	76011153	RESISTOR, CHIP, 1/2OW 15K OHM J

U03D KEY (PE0250)

	Location	Parts No.	Description
*	U03D	75005871	PC BOARD ASSY, PE0250A4, KEY
	GA01	23362042	DIODE, ZENER, UDZS6.8B
	GA02	23362042	DIODE, ZENER, UDZS6.8B
	GA03	23362042	DIODE, ZENER, UDZS6.8B
	PA01C	23713938	CONNECTOR, B5B-PH-K-S(LF)
	RA71	76011683	RESISTOR, CHIP, 1/20W 68K OHM J
	RA72	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	RA73	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA74	76000445	CHIP JUMPER, 1608TYPE
	RA77	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA78	76000445	CHIP JUMPER, 1608TYPE
	RA79	76000445	CHIP JUMPER, 1608TYPE
	SA01	23344507	SWITCH, PUSH, SKHHLMA010
	SA02	23344507	SWITCH, PUSH, SKHHLMA010
	SA03	23344507	SWITCH, PUSH, SKHHLMA010
	SA04	23344507	SWITCH, PUSH, SKHHLMA010
	SA05	23344507	SWITCH, PUSH, SKHHLMA010
	SA06	23344507	SWITCH, PUSH, SKHHLMA010
	SA07	23344507	SWITCH, PUSH, SKHHLMA010

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	Location	Parts No.	Description
*	U04AS	75006506	PC BOARD ASSY, PE0251A1, SIGNAL
	C311	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C312	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C313	V03GD0000559	CHIP CERAMIC CAPACITOR (1608)
	C321	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C322	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C327	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C360	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C361	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C362	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C370	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)
	C371	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)
	C372	V03GD0000578	CHIP CERAMIC CAPACITOR (1608)
	C373	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)
	C374	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C375	V03GD0000578	CHIP CERAMIC CAPACITOR (1608)
	C376	V03GD0000541	CHIP CERAMIC CAPACITOR (1608)
	C377	V03GD0000541	CHIP CERAMIC CAPACITOR (1608)
	C378	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)
	C379	V03GD0000741	CHIP CERAMIC CAPACITOR (3216)
	C388	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C389	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C401	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C404	V03GD0000708	CHIP CERAMIC CAPACITOR (1608)
	C406	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C407	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C408	V03GD0000708	CHIP CERAMIC CAPACITOR (1608)
	C410	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C411	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C414	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C415	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C427	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C428	V03GD0001144	CHIP CERAMIC CAPACITOR (1608)
	C429	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C430	V13GD0000338	CHIP THREE TERMINAL CAPACITOR
	C431	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C432	V03GD0001144	CHIP CERAMIC CAPACITOR (1608)
	C433	V03GD0001144	CHIP CERAMIC CAPACITOR (1608)
	C434	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)

	C435	V03GD0000591	CHIP CERAMIC CAPACITOR (1608)
	C436	V03GD0000574	CHIP CERAMIC CAPACITOR (1608)
	C438	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C439	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C440	V03GD0001318	CHIP CERAMIC CAPACITOR (2012)
	C441	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C442	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C451	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C453	V03GD0000574	CHIP CERAMIC CAPACITOR (1608)
	C454	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C455	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C458	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C459	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C460	V03GD0000543	CHIP CERAMIC CAPACITOR (1608)
	C471	V03GD0000546	CHIP CERAMIC CAPACITOR (1608)
	C473	V03GD0001130	CHIP CERAMIC CAPACITOR (1608)
	C474	V03GD0001130	CHIP CERAMIC CAPACITOR (1608)
	C475	V03GD0001130	CHIP CERAMIC CAPACITOR (1608)
	C476	V03GD0000591	CHIP CERAMIC CAPACITOR (1608)
	C486	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C490	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C491	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C494	V03A000004Q0	CAPACITOR CHIP CERA 25V 104S 3
	C495	V03GD0000585	CHIP CERAMIC CAPACITOR (1608)
	C496	V03GD0000585	CHIP CERAMIC CAPACITOR (1608)
	C730	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C731	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C732	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C733	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C734	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C735	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C736	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C737	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C773	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C774	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C775	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C776	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C777	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C778	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C779	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C780	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)

	C784	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C785	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C786	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C787	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C788	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C789	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C790	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C872	V03GD0001138	CHIP CERAMIC CAPACITOR (1608)
	C873	V03GD0001138	CHIP CERAMIC CAPACITOR (1608)
	C874	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C911	V03GD0001138	CHIP CERAMIC CAPACITOR (1608)
	C912	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C913	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C914	V03GD0000589	CHIP CERAMIC CAPACITOR (1608)
	C915	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C919	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C923	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C924	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C951	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C953	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C2000	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2001	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2002	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2003	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2004	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2005	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2006	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2007	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2008	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2009	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2010	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2011	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2012	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2013	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2014	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2015	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2016	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2017	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2018	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C2019	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3002	V03GD0001320	CHIP CERAMIC CAPACITOR (3216)

	C3004	V03GD0001320	CHIP CERAMIC CAPACITOR (3216)
	C3201	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3410	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3411	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C3412	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3413	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C3414	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3415	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C3416	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3417	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C3418	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3419	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C3420	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C3421	V03GD0000538	CHIP CERAMIC CAPACITOR (1608)
	C3446	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C7900	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7901	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7902	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7903	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7904	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7905	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7906	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7907	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7908	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7909	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7910	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7911	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7912	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7913	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7914	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7915	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7916	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7917	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7918	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7919	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7920	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7921	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7922	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7923	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7924	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7925	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)

	C7926	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7927	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7928	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7929	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7930	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7931	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7932	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7933	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7934	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7935	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7936	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7937	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7938	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7939	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7940	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7941	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7942	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7943	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7944	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7945	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7946	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7947	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7948	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C7949	V03GD0001131	CHIP CERAMIC CAPACITOR (2012)
	C7950	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C7951	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C7952	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C7953	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7954	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7955	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
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	C7958	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7959	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7960	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7961	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C7962	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C7963	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C7964	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C7966	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7967	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)

	C7968	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7969	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7970	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7971	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7972	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7973	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7974	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C7975	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7976	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7977	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7978	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7979	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7980	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7981	V03GD0000719	CHIP CERAMIC CAPACITOR (1608)
	C7982	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7983	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7984	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7985	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7986	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7987	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7988	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7989	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7990	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7991	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C7992	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9055	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9056	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9057	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9058	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9059	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9065	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9066	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9067	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9070	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9071	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9074	V03GD0001126	CHIP CERAMIC CAPACITOR (1608)
	C9202	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9204	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9205	V03GD0000827	CHIP CERAMIC CAPACITOR (1608)
	C9207	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C9208	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)

	C9211	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C9216	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C9219	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9220	V03GD0001128	CHIP CERAMIC CAPACITOR (1608)
	C9221	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	C9223	V03GD0000572	CHIP CERAMIC CAPACITOR (1608)
	C9224	V03GD0000558	CHIP CERAMIC CAPACITOR (1608)
	CN320	75001875	CONNECTOR HDMI 1.0MM 19P
	CN321	75001875	CONNECTOR HDMI 1.0MM 19P
	CN322	V22GD0001650	0.5MM PITCH W TO B CONNECTOR
	D201	V42GD0000208	ZENER DIODE
	D202	V42GD0000208	ZENER DIODE
	D203	V42GD0000208	ZENER DIODE
	D204	V42GD0000208	ZENER DIODE
	D205	V42GD0000208	ZENER DIODE
	D206	V42GD0000208	ZENER DIODE
	D207	V42GD0000208	ZENER DIODE
	D208	V42GD0000208	ZENER DIODE
	D209	V42GD0000208	ZENER DIODE
	D210	V42GD0000208	ZENER DIODE
	D211	V42GD0000208	ZENER DIODE
	D212	V42GD0000208	ZENER DIODE
	D213	V42GD0000208	ZENER DIODE
	D214	V42GD0000208	ZENER DIODE
	D215	V42GD0000208	ZENER DIODE
	D216	V42GD0000208	ZENER DIODE
	D224	V42GD0000208	ZENER DIODE
	D225	V42GD0000208	ZENER DIODE
	D400	V42GD0000219	DIODE
	D401	V42GD0000219	DIODE
	D402	V42GD0000219	DIODE
	D403	V42GD0000257	SCHOTTKY BARRIER DIODE
	D500	V42GD0000245	SCHOTTKY BARRIER DIODE
	E101	VF2A00049400	SHIELD SLD SIG TOP EU PRO
	E102	23717306	PPSW 3X5 ECO
	E103	23717306	PPSW 3X5 ECO
	E104	23717306	PPSW 3X5 ECO
	E105	23466412	E02S0607ET15
	E106	23466412	E02S0607ET15
	FL201	75003060	FILTER CHIP BEAD INDUCTOR 47OH
	FL202	75003060	FILTER CHIP BEAD INDUCTOR 47OH

	FL203	75003060	FILTER CHIP BEAD INDUCTOR 47OH
	FL301	V05A000002Q0	COIL
	FL302	V05A000002Q0	COIL
	FL303	V05A000002Q0	COIL
	FL304	75003116	FILTER CHIP BEAD INDUCTOR 60OH
	FL305	75003411	FILTER CHIP BEAD INDUCTOR 220O
	FL306	75003411	FILTER CHIP BEAD INDUCTOR 220O
	FL310	V01GD0001702	CHIP JUMPER 1608TYPE
	FL326	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL327	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL412	V03A000004Q0	CAPACITOR CHIP CERA 25V 104S 3
	FL413	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL415	75003117	FILTER CHIP BEAD INDUCTOR 180O
	FL416	75003117	FILTER CHIP BEAD INDUCTOR 180O
	FL417	75003117	FILTER CHIP BEAD INDUCTOR 180O
	FL418	75003117	FILTER CHIP BEAD INDUCTOR 180O
	FL419	75003117	FILTER CHIP BEAD INDUCTOR 180O
	FL420	75003117	FILTER CHIP BEAD INDUCTOR 180O
	FL421	75003117	FILTER CHIP BEAD INDUCTOR 180O
	FL422	75003117	FILTER CHIP BEAD INDUCTOR 180O
	FL423	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL424	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL425	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL426	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL427	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL428	75003115	FILTER CHIP BEAD INDUCTOR 220O
	FL432	75003411	FILTER CHIP BEAD INDUCTOR 220O
	FL434	75003114	FILTER CHIP BEAD INDUCTOR 120O
	FL435	75003114	FILTER CHIP BEAD INDUCTOR 120O
	FL436	75003113	FILTER CHIP BEAD INDUCTOR 120O
	FL870	V13GD0000343	CHIP BEADS INDUCTOR (1608)
	FL902	V01GD0001702	CHIP JUMPER 1608TYPE
	FL922	75003112	FILTER CHIP BEAD INDUCTOR 1.0K
	FL923	75003112	FILTER CHIP BEAD INDUCTOR 1.0K
	FL924	75003112	FILTER CHIP BEAD INDUCTOR 1.0K
	FL930	75003114	FILTER CHIP BEAD INDUCTOR 120O
	FL931	75003113	FILTER CHIP BEAD INDUCTOR 120O
	FL932	75003114	FILTER CHIP BEAD INDUCTOR 120O
	FL935	75003113	FILTER CHIP BEAD INDUCTOR 120O
	IC300	75005876	IC 3TO1DVI/HDMI SWITCH
	IC301	V45GD0000462	2 INPUT AND GATE

	IC302	V45GD0000462	2 INPUT AND GATE
	IC310	V45GD0000549	EXCLUSIVE OR GATE
	IC360	V47GD0000571	AUDIO D/A CONVERTER
	IC371	V47GD0000998	DUAL AUDIO OP AMP
	IC387	75003068	IC HDMI RX-KEY
	IC402	75006542	IC VOLTAGE REGULATOR
	IC403	V47GD0001109	BUCK CONVERTER
	IC404	V46GD0001475	16M(1MX16)BIT FLASH MEMORY
	IC410	V47GD0000702	LOW POWER-LOSS REGURATOR
	IC411	V47GD0000716	VOLTAGE REGULATOR
	IC413	V46GD0001233	128K(16KX8)BIT EEPROM
	IC420	V47GD0001110	STEP-DOWN CONVERTER
	IC700	75006104	IC LCD TV CONTROLLER WITH HDMI
	IC701	75005552	IC 128(8X16)MBIT DDR SDRAM
	IC702	75005552	IC 128(8X16)MBIT DDR SDRAM
	IC705	V45GD0000483	DUAL BILATERAL SWITCH
	IC921	V45GD0000443	EXCLUSIVE OR GATE
	IC923	V45GD0000462	2 INPUT AND GATE
	IC924	V45GD0000462	2 INPUT AND GATE
	L300	75003410	FILTER CHIP BEAD INDUCTOR 33OH
	L302	75003410	FILTER CHIP BEAD INDUCTOR 33OH
	L344	V05GD0000502	CHIP INDUCTOR(3225)
	L430	V05GD0000598	CHIP POWER INDUCTOR
	L431	V05GD0000599	CHIP POWER INDUCTOR
	L912	75003413	FILTER CHIP BEAD 120OHM 0.8A
	L916	75003410	FILTER CHIP BEAD INDUCTOR 33OH
	L920	75003410	FILTER CHIP BEAD INDUCTOR 33OH
	L921	75003411	FILTER CHIP BEAD INDUCTOR 22OO
	L922	75003411	FILTER CHIP BEAD INDUCTOR 22OO
	L923	75003411	FILTER CHIP BEAD INDUCTOR 22OO
	L924	75003410	FILTER CHIP BEAD INDUCTOR 33OH
	L926	75003411	FILTER CHIP BEAD INDUCTOR 22OO
	L927	75003411	FILTER CHIP BEAD INDUCTOR 22OO
	L928	75003411	FILTER CHIP BEAD INDUCTOR 22OO
	L943	75003411	FILTER CHIP BEAD INDUCTOR 22OO
	L9031	75003410	FILTER CHIP BEAD INDUCTOR 33OH
	L9032	75003410	FILTER CHIP BEAD INDUCTOR 33OH
	N001	23961276	SOLDER CREAM
	N002	23961260	ER M708E-3.0
	N003	23961257	R M708E 400G
	N004	23961293	S-1061SP-2 C

	N005	23961263	M705ESC 0.6
	N006	23961265	M705ESC 1.0
	N007	23961267	M705ESC 1.6
	N008	23962411	AD EP 3609
	N009	23964124	SOL #4520 UN
	N010	23964899	SOLVENT S-10
	N011	23962432	SR-22530S 25
	PB04A	V28A000318A1	PC BOARD C3000D_SIGNAL
	PJ22	75001960	1MM PITCH B TO B CONNECTOR
	PJ24	V22GD0000429	1.25MM PITCH BRIDGE CONNECTOR
	PJ80	75003061	CONNECTOR B-B FLOATING 1.25MM
	PJ200	75004070	CONNECTOR W-B 1.5MM 16P V
	PJ403	V22GD0001440	2.0MM PITCH SMD NYLON CONNECTO
	PJ404	V22GD0001528	1MM PITCH B TO B CONNECTOR
	PJ920	23713949	B-PH-K-S(LF)
	Q324	V41GD0000236	NPN TRANSISTOR
	Q325	V41GD0000232	NPN TRANSISTOR
	Q400	V41GD0000236	NPN TRANSISTOR
	Q920	V41GD0000236	NPN TRANSISTOR
	Q921	V41GD0000236	NPN TRANSISTOR
	R301	V01GD0000924	CHIP RESISTOR (1608)
	R302	V01GD0001670	CHIP RESISTOR (1608)
	R303	V01GD0000894	CHIP RESISTOR (1608)
	R304	V01GD0000894	CHIP RESISTOR (1608)
	R305	V01GD0000894	CHIP RESISTOR (1608)
	R306	V01GD0000924	CHIP RESISTOR (1608)
	R307	V01GD0000924	CHIP RESISTOR (1608)
	R309	V01GD0000924	CHIP RESISTOR (1608)
	R310	V01GD0000914	CHIP RESISTOR (1608)
	R315	V01GD0000894	CHIP RESISTOR (1608)
	R316	V01GD0000907	CHIP RESISTOR (1608)
	R317	V01GD0000914	CHIP RESISTOR (1608)
	R320	V01GD0000896	CHIP RESISTOR (1608)
	R321	V01GD0000896	CHIP RESISTOR (1608)
	R322	V01GD0000896	CHIP RESISTOR (1608)
	R323	V01GD0000896	CHIP RESISTOR (1608)
	R324	V01GD0000896	CHIP RESISTOR (1608)
	R325	V01GD0000896	CHIP RESISTOR (1608)

Miscellaneous

	Location	Parts No.	Description
⚠	B001	75005890	LCD PANEL, G7LPL32SL22, LC320W01-SL22
	H001	75005953	TUNER, ENG37E01GF
	MZ01	75006512	WIRE HARNESS LVDS, V90A00011800
⚠	P801	23372353	POWER CORD, UK 250V3A FL/FUSE13
⚠	P801	23372368	POWER CORD, CEE FL M5206 250V2 206 - 2.3M HOUSING
	PJ22B	75002683	CONNECTOR, 1MM PITCH B TO B, 237702150K4
	PP05	23974994	BAND, KESSOKU
	PP08	23974994	BAND, KESSOKU
	W661	75005717	SPEAKER ASSY, SPK1493AO, 60X120 8-OHM 10W
	Z801	23103778	FERRITE CORE, TFE1008

Accessory

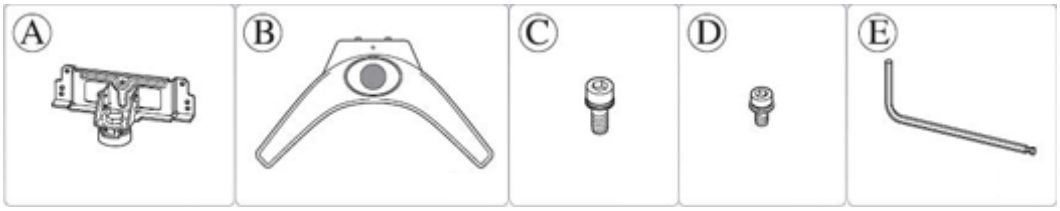
	Location	Parts No.	Description
⚠	Y101	75005954	OWNERS MANUAL, ENGLISH
⚠	Y101E	75005956	OWNERS MANUAL, EURO
	Y101N	75005957	OWNERS MANUAL, NORDIC
	Y102E	75005958	OWNERS MANUAL, E EURO
	Y110	75005955	OWNERS MANUAL, QSUG
	Y114	75005904	SCHEMATIC DIAGRAM
	Y130	75005952	REMOCON HAND UNIT, CT-90274
	Y170	23845800	HOLDER, WIRE, NYLON66 D6.8

Cabinet

	Location	Parts No.	Description
	A201	75005895	FRONT BEZEL ASSY
	A320	75005894	PIECE, CTRL S ASSY
	A380	23717240	SCREW, BITTB3X10SZN
⚠	A401	75005893	BACK COVER ASSY
	A411	23717267	SCREW, BITTB4X16 SBN
	A412	23717214	SCREW, BITTB3X12SBN
	A420	75006051	LEG STAND KIT FIX
	A425	75006696	LEG FIX BKT ASSY FIX
	A426	75006697	LEG BASE ASSY FIX SS
	A427	75006698	LEG SCREW CAP PP 6*20 SBN
	A428	23717177	LEG SCREW CAP PP 5*12 SBN
	A429	75007210	LEG STAND WRENCH
	A430	75005733	CLAMP HOLDER
	A440	23717177	SCREW, PP5X12+SW+W SBN 32L400V;S2681X011

CABINET

Stand Exploded View



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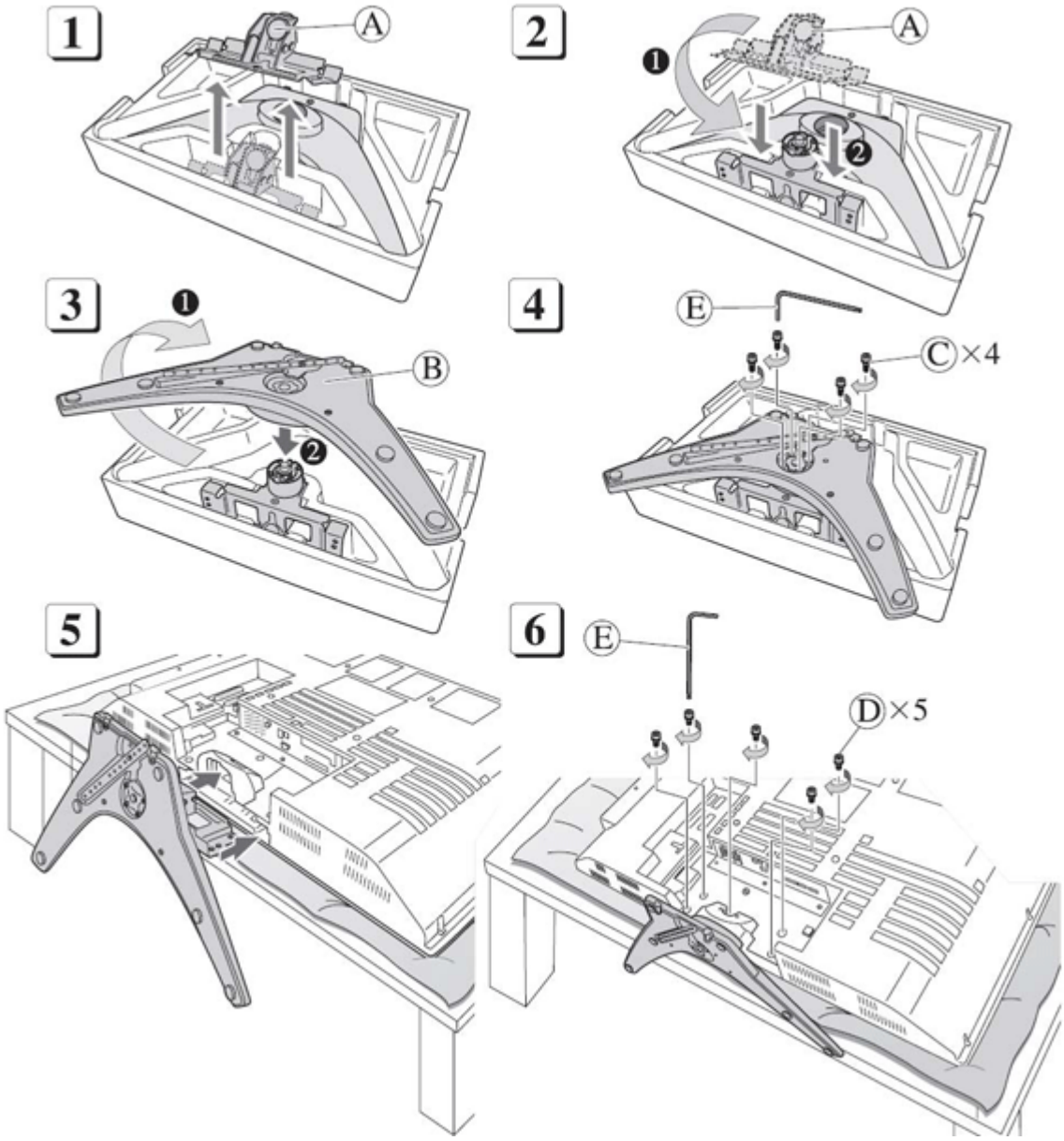


U01A POWER (PE0252)

	Location	Parts No.	Description
*	U01A	75005838	PC BOARD ASSY, PE0252A1, POWER
⚠	C801	76503510	CAPACITOR, PLASTIC FILM, LE224-C
⚠	C802	76503510	CAPACITOR, PLASTIC FILM, LE224-C
⚠	C803	76503169	CAPACITOR, PLASTIC FILM, 630V 0.1UF J
	C804	76214103	CAPACITOR, CERAMIC DISC, 500V B 0.01UF K
	C805	76092281	CAPACITOR, CERAMIC DISC, AC250V E 4700PF
	C810	76125035	CAPACITOR, ELECTROLYTIC, 450V 470UF M
⚠	C811	76092567	CAPACITOR, CERAMIC DISC, AC250V E 1000PF M
⚠	C812	76092567	CAPACITOR, CERAMIC DISC, AC250V E 1000PF M
	C813	76092616	CAPACITOR, CERAMIC CHIP, 16V B 0.33UF K
	C815	75005709	CAPACITOR, CHIP CERA, 50V B 0.47UF K, GRM21BB31H474KA87L
	C816	76073090	CAPACITOR, ELECTROLYTIC, 50V 100UF M
	C817	76092463	CAPACITOR, CERAMIC CHIP, 16V B 0.22UF K
	C819	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	C820	76092796	CAPACITOR, CERAMIC CHIP, 50V B 0.22UF K
	C821	76092343	CAPACITOR, CERAMIC DISC, 2KV 680PF K
	C822	76092344	CAPACITOR, CERAMIC DISC, 2KV 820PF K
	C823	76092341	CAPACITOR, CERAMIC DISC, 2KV R 470PF K
	C824	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	C825	75004442	CAPACITOR, CERAMIC CHIP, 50V B 1UF K
	C826	76092341	CAPACITOR, CERAMIC DISC, 2KV R 470PF K
	C827	76678229	CAPACITOR, ELECTROLYTIC, 200V 2.2UF M
	C883	76125039	CAPACITOR, ELECTROLYTIC, 35V 4700UF M
	C888	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	C889	76073094	CAPACITOR, ELECTROLYTIC, 50V 1000UF M
	C890	76092616	CAPACITOR, CERAMIC CHIP, 16V B 0.33UF K
	CE04	76092281	CAPACITOR, CERAMIC DISC, AC250V E 4700PF
	CE07	75005709	CAPACITOR, CHIP CERA, 50V B 0.47UF K, GRM21BB31H474KA87L
	CE09	76668339	CAPACITOR, ELECTROLYTIC, 35V 3.3UF M
	CE10	76125040	CAPACITOR, ELECTROLYTIC, 450V 120UF M
	CE12	76092883	CAPACITOR, CERAMIC CHIP, 50V B 0.1UF K
⚠	CE13	76092565	CAPACITOR, CERAMIC DISC, AC250V B 470PF K
⚠	CE14	76092565	CAPACITOR, CERAMIC DISC, AC250V B 470PF K
	CE16	76073181	CAPACITOR, ELECTROLYTIC, 35V 56UF M
	CE17	76092339	CAPACITOR, CERAMIC DISC, 2KV 330PF K
	CE23	76109471	CAPACITOR, CERAMIC CHIP, 50V B 470PF K
	CE24	76285104	CAPACITOR, CERAMIC CHIP, 50V B 0.1UF K
	CE29	76105331	CAPACITOR, CERAMIC CHIP, 50V CH 330PF J
	CE43	76092883	CAPACITOR, CERAMIC CHIP, 50V B 0.1UF K
	CE82	76676470	CAPACITOR, ELECTROLYTIC, 100V 47UF M

	CE85	76073178	CAPACITOR, ELECTROLYTIC, 25V 3300UF M
	D801	23362200	DIODE, D5SB60, 7009F07
	D801B	23717240	SCREW, BITTB3X10SZN
	D805	23357850	DIODE, ZENER, MTZJ9.1A
	D806	23357893	DIODE, ZENER, MTZJ27C
	D809	23357905	DIODE, ZENER, MTZJ36C
	D810	23357893	DIODE, ZENER, MTZJ27C
	D811	23357511	DIODE, AG01A
	D812	23357852	DIODE, ZENER, MTZJ9.1C
	D813	23357512	DIODE, AL01Z
	D852	23357697	DIODE, 1SS133
	D883	75001877	DIODE, FMEN-220A
	D883B	23717240	SCREW, BITTB3X10SZN
	D884	75001877	DIODE, FMEN-220A
	D884B	23717240	SCREW, BITTB3X10SZN
	D885	23357512	DIODE, AL01Z
	D886	23357512	DIODE, AL01Z
⚠	D899	75001869	VARISTOR, V1=470V 2500A/2
	DE01	23362204	DIODE, D3SB60, 7109F08
	DE02	23357511	DIODE, AG01A
	DE03	23357511	DIODE, AG01A
	DE05	23357104	DIODE, 1SS244
	DE06	23357366	DIODE, FR105-B5
	DE07	23357900	DIODE, ZENER, MTZJ33B
	DE09	23357842	DIODE, ZENER, MTZJ6.8B
	DE14	23357512	DIODE, AL01Z
	DE15	23357892	DIODE, ZENER, MTZJ27B
	DE16	23357880	DIODE, ZENER, MTZJ20B
	DE17	23357512	DIODE, AL01Z
	DE72	23357366	DIODE, FR105-B5
	DE75	23357408	DIODE, FMX-12S(023-108)
	DE75B	23717240	SCREW, BITTB3X10SZN
⚠	F801	75005842	FUSE, CARTRIDGE 5.2X20, FSL 250V 6.3A (EM)
	F801A	23165433	FUSE HOLDER, 5.2
	F801B	23165433	FUSE HOLDER, 5.2
⚠	F802	23144380	FUSE, RADIAL LEAD SUB-MINIATUR, 250V 3.15A
⚠	FE01	75005841	FUSE, RADIAL, 5RT 3.15A
⚠	L801	23217846	TRANSFORMER, CHOKE, TPW2081AS
⚠	L802	23217788	TRANSFORMER, CHOKE, TPW2070AS
	L804	23103304	FERRITE CHOKE, TEM2011AA
	L805	23103304	FERRITE CHOKE, TEM2011AA
	L806	23248417	COIL, CHOKE, TLN3481AH
	L807	23248417	COIL, CHOKE, TLN3481AH

	L874	23103304	FERRITE CHOKE, TEM2011AA
	L875	23103304	FERRITE CHOKE, TEM2011AA
	L876	23103304	FERRITE CHOKE, TEM2011AA
	L878	23103304	FERRITE CHOKE, TEM2011AA
	L883	75005790	COIL, CHOKE, 1.5MMH M 14A, LB1R5 HA
	LE11	23103304	FERRITE CHOKE, TEM2011AA
⚠	P801A	23713702	PLUG, 2P 11.88MM W VT
	P804A	23713942	CONNECTOR, 10P, B10B-PH-K-S(LF)
	P805A	23713942	CONNECTOR, 10P, B10B-PH-K-S(LF)
	P806A	23713759	PLUG, 8P 2.5MM G, B8B-EH-F1-TV4
	P807A	23713757	PLUG, 6P 2.5MM G, B6B-EH-F1-TV4
	PG03	23165495	EARTH TERMINAL, MET31-0332
	PG04	23165495	EARTH TERMINAL, MET31-0332
	Q801	75003052	IC, STR-Z4567
⚠	Q826	23000823	IC, PHOTO COUPLER, TLP421F(GR)
	Q851	23205446	TRANSISTOR, 2SC2412K, Q T146
	Q852	23205446	TRANSISTOR, 2SC2412K, Q T146
	Q883	23135091	IC, SE024N
	QE01	23135072	IC, STRW6765
	QE01B	23717240	SCREW, BITTB3X10SZN
⚠	QE26	23000823	IC, PHOTO COUPLER, TLP421F(GR)
	QE83	23085587	IC, TA76431S
⚠	R801	76004716	RESISTOR, METAL GLAZE, 1/2W 2.2M OHM J
	R803	76366102	RESISTOR, CARBON FILM, 1/6W 1K OHM J
	R805	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R806	76552470	RESISTOR, OXIDE METAL FILM, 1/2W 47 OHM J
	R807	76366393	RESISTOR, CARBON FILM, 1/6W 39K OHM J
	R808	76552101	RESISTOR, OXIDE METAL FILM, 1/2W 100 OHM J
	R809	76321689	RESISTOR, OXIDE METAL FILM, 1/2W 6.8 OHM J
	R812	76552471	RESISTOR, OXIDE METAL FILM, 1/2W 470 OHM J
	R813	76366220	RESISTOR, CARBON FILM, 1/6W 22 OHM J
	R814	76552470	RESISTOR, OXIDE METAL FILM, 1/2W 47 OHM J
	R815	76552100	RESISTOR, OXIDE METAL FILM, 1/2W 10 OHM J
	R816	76011331	RESISTOR, CHIP, 1/20W 330 OHM J
	R817	76377224	RESISTOR, CARBON FILM, 1W 220K OHM J
	R821	76322689	RESISTOR, OXIDE METAL FILM, 1W 6.8 OHM J
	R827	76383103	RESISTOR, OXIDE METAL FILM, 2W 10K OHM J
	R828	76383103	RESISTOR, OXIDE METAL FILM, 2W 10K OHM J
	R853	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R854	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R869	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	R873	76871152	RESISTOR, CHIP, 1/8W 1.5K OHM J
	R874	76000445	CHIP JUMPER, 1608TYPE

	R890	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
⚠	R899	76004718	RESISTOR, METAL GLAZE, 1/2W 8.2M OHM J
	RE03	76382104	RESISTOR, OXIDE METAL FILM, 1W 100K OHM J
	RE04	76382104	RESISTOR, OXIDE METAL FILM, 1W 100K OHM J
	RE12	76552221	RESISTOR, OXIDE METAL FILM, 1/2W 220 OHM J
	RE13	76011273	RESISTOR, CHIP, 1/20W 27K OHM J
	RE15	76366102	RESISTOR, CARBON FILM, 1/6W 1K OHM J
	RE16	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RE18	75005839	RESISTOR, RGC2-0.47-OHM-J
	RE19	76310829	RESISTOR, METAL FILM, 1/2W 8.2 OHM J
	RE23	76552152	RESISTOR, OXIDE METAL FILM, 1/2W 1.5K OHM J
	RE38	76871222	RESISTOR, CHIP, 1/8W 2.2K OHM J
	RE39	76011152	RESISTOR, CHIP, 1/20W 1.5K OHM J
	RE43	76011753	RESISTOR, CHIP, 1/20W 75K OHM J
	RE44	76000593	RESISTOR, CHIP, 1/16W 10K OHM F
	RE46	76000448	RESISTOR, CHIP, 1/16W 1.8K OHM F
	RE48	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
⚠	SR81	23146597	RELAY, DC5V 0.25W, DG5D1-O(M)-2
⚠	T801	75005840	FILTER LF 30XH25 16MH 1.6A, LCL-42806-HA
⚠	T802	75005840	FILTER LF 30XH25 16MH 1.6A, LCL-42806-HA
⚠	T862	75003049	TRANSFORMER, ST-3210
⚠	TE62	23217841	TRANSFORMER, CONVERTER, TPW3586AD
	Z889	23144416	FUSE, PROTECTOR, 125V 5A, SMP125M05A00
	ZE72	23144412	FUSE, PROTECTOR, 125V 1A, SMP125M01A00
	ZE75	23144416	FUSE, PROTECTOR, 125V 5A, SMP125M05A00

U02A LOW_B (PE0253)

	Location	Parts No.	Description
*	U02A	75005970	PC BOARD ASSY, PE0253N1, LOW_B
	CE31	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CE100	76092538	CAPACITOR, CERAMIC CHIP, 10V F 1UF Z
	CE102	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CE150	76092179	CAPACITOR, CERAMIC CHIP, 25V B 0.22UF K
	CE151	76092179	CAPACITOR, CERAMIC CHIP, 25V B 0.22UF K
	CE200	76073183	CAPACITOR, ELECTROLYTIC, 35V 220UF M
	CE201	76617023	CAPACITOR, ELECTROLYTIC, 16V 330UF M
	CE203	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	CE501	76073181	CAPACITOR, ELECTROLYTIC, 35V 56UF M
	CE531	75005708	CAPACITOR, CHIP CERA, 50V B 0.33UF K, C2012JB1H334KT
	CE532	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	CE533	76794101	CAPACITOR, ELECTROLYTIC, 16V 100UF M
	CE551	76092179	CAPACITOR, CERAMIC CHIP, 25V B 0.22UF K
	CE552	76073189	CAPACITOR, ELECTROLYTIC, 35V 1000UF M
	CE571	76073181	CAPACITOR, ELECTROLYTIC, 35V 56UF M
	CE573	76092859	CAPACITOR, CERAMIC CHIP, 10V B 1UF K
	CE574	76109223	CAPACITOR, CERAMIC CHIP, 25V B 0.022UF K
	DE31	23357862	DIODE, ZENER, MTZJ11B
	DE32	23357862	DIODE, ZENER, MTZJ11B
	DE33	23357855	DIODE, ZENER, MTZJ10C
	DE41	23357703	DIODE, 1SS355
	DE43	23357869	DIODE, ZENER, MTZJ13C
	DE44	23357869	DIODE, ZENER, MTZJ13C
	DE150	23357800	DIODE, ZENER, MA8300-H
	DE151	23357703	DIODE, 1SS355
	DE200	75005719	DIODE, D1NS4-5060
	DE201	23357842	DIODE, ZENER, MTZJ6.8B
	DE501	23357783	DIODE, ZENER, MA8180-L, TX
	DE502	23357703	DIODE, 1SS355
	DE531	23357866	DIODE, ZENER, MTZJ12C
	DE571	23357840	DIODE, ZENER, MTZJ6.2B
	DE573	23357848	DIODE, ZENER, MTZJ8.2B
	LE200	23289049	COIL, PEAKING, TRF4330AU
	LE201	23248399	COIL, CHOKE, TLN3283D
	LE202	23103304	FERRITE CHOKE, TEM2011AA
	LE501	23248417	COIL, CHOKE, TLN3481AH
	LE571	23248417	COIL, CHOKE, TLN3481AH
	P806B	23713759	PLUG, 8P 2.5MM G, B8B-EH-F1-TV4

	P807B	23713757	PLUG, 6P 2.5MM G, B6B-EH-F1-TV4
	PG02	23165495	EARTH TERMINAL, MET31-0332
	QE20	75003051	IC, SI-8050W-TL
	QE31	23205568	TRANSISTOR, 2SA1163-GR(TE85L, F
	QE32	23205569	TRANSISTOR, 2SC2713-GR(TE85L, F
	QE40	23205292	TRANSISTOR, 2SD2396
	QE40B	23717240	SCREW, BITTB3X10SZN
	QE53	23085423	IC, KIA7809API-U/P
	QE53B	23717240	SCREW, BITTB3X10SZN
	QE55	75001876	TRANSISTOR, TPC8111(TE12L, Q)
	QE57	75001881	IC, CE-1059
	QE100	23205443	TRANSISTOR, 2SA1162-Y(F)
	QE101	23205446	TRANSISTOR, 2SC2412K, Q T146
	QE102	23205446	TRANSISTOR, 2SC2412K, Q T146
	QE103	23205327	TRANSISTOR, RN1406(F)
	QE150	23085415	IC, BD4746G
	QE500	75001881	IC, CE-1059
	QE501	23205446	TRANSISTOR, 2SC2412K, Q T146
	QE503	23205330	TRANSISTOR, RN1403(F)
	QE552	23205330	TRANSISTOR, RN1403(F)
	QE553	23205567	TRANSISTOR, RN2403(TE85L, F)
	QE554	23205330	TRANSISTOR, RN1403(F)
	QE572	23085338	IC, BD5245G-TR
	QE573	23205446	TRANSISTOR, 2SC2412K, Q T146
	QE574	23205446	TRANSISTOR, 2SC2412K, Q T146
	RE31	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RE32	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	RE33	76553122	RESISTOR, OXIDE METAL FILM, 1W 1.2K OHM J
	RE34	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RE35	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	RE41	76552271	RESISTOR, OXIDE METAL FILM, 1/2W 270 OHM J
	RE100	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RE101	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RE102	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RE103	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RE104	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RE105	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RE106	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RE107	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RE108	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RE150	76190014	RESISTOR, CHIP, 1/16W 18K OHM F

	RE151	76190013	RESISTOR, CHIP, 1/16W 22K OHM F
	RE152	76000574	RESISTOR, CHIP, 1/16W 2.7K OHM F
	RE153	76000552	RESISTOR, CHIP, 1/16W 390 OHM F
	RE154	76011333	RESISTOR, CHIP, 1/20W 33K OHM J
	RE155	76011562	RESISTOR, CHIP, 1/20W 5.6K OHM J
	RE200	76000445	CHIP JUMPER, 1608TYPE
	RE501	76011151	RESISTOR, CHIP, 1/20W 150 OHM J
	RE502	76000445	CHIP JUMPER, 1608TYPE
	RE506	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RE507	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RE508	76871222	RESISTOR, CHIP, 1/8W 2.2K OHM J
	RE509	76871222	RESISTOR, CHIP, 1/8W 2.2K OHM J
	RE551	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	RE552	76011562	RESISTOR, CHIP, 1/20W 5.6K OHM J
	RE571	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RE572	76011682	RESISTOR, CHIP, 1/20W 6.8K OHM J
	RE573	76011682	RESISTOR, CHIP, 1/20W 6.8K OHM J
	RE574	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RE575	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	RE576	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RE577	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	RE578	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RE579	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	ZE41	23144413	FUSE, PROTECTOR 125V 2A, SMP125M02A00

Loading ...

	Location	Parts No.	Description
*	U03A	75005868	PC BOARD ASSY, PE0250A1, AV_TERMINAL
	C101	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	C102	76762471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	C103	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	C104	76766479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	C105	76762471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	C106	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	C112	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	C114	76105330	CAPACITOR, CERAMIC CHIP, 50V CH 33PF J
	C115	76105330	CAPACITOR, CERAMIC CHIP, 50V CH 33PF J
	C162	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	C164	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	C190	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	C415	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	C416	76092731	CAPACITOR, CERAMIC CHIP, 16V B 1UF K
	C417	76109221	CAPACITOR, CERAMIC CHIP, 50V B 220PF K
	C419	76109222	CAPACITOR, CERAMIC CHIP, 50V B 2200PF K
	C457	76092731	CAPACITOR, CERAMIC CHIP, 16V B 1UF K
	C459	76105220	CAPACITOR, CERAMIC CHIP, 50V CH 22PF J
	C460	76109221	CAPACITOR, CERAMIC CHIP, 50V B 220PF K
	C461	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	C462	76109222	CAPACITOR, CERAMIC CHIP, 50V B 2200PF K
	C463	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	C465	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	C645	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	C660	76669479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	C661	76669479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	C662	76109681	CAPACITOR, CERAMIC CHIP, 50V B 680PF K
	C663	76109681	CAPACITOR, CERAMIC CHIP, 50V B 680PF K
	C668	76092515	CAPACITOR, CERAMIC CHIP, 16V F 4.7UF Z
	C669	76092515	CAPACITOR, CERAMIC CHIP, 16V F 4.7UF Z
	C670	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	C671	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	C672	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	C673	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	C674	76669010	CAPACITOR, ELECTROLYTIC, 50V 1UF M
	C675	76105221	CAPACITOR, CERAMIC CHIP, 50V CH 220PF J
	C676	76105221	CAPACITOR, CERAMIC CHIP, 50V CH 220PF J
	C677	76667470	CAPACITOR, ELECTROLYTIC, 25V 47UF M

	C678	76567104	CAPACITOR, PLASTIC FILM, 50V 0.1UF J
	C680	76668102	CAPACITOR, ELECTROLYTIC, 35V 1000UF M
	C681	76668102	CAPACITOR, ELECTROLYTIC, 35V 1000UF M
	C682	76668102	CAPACITOR, ELECTROLYTIC, 35V 1000UF M
	C683	76669339	CAPACITOR, ELECTROLYTIC, 50V 3.3UF M
	C683A	23960136	ADHESIVE, SILICONE, TSE3843-W
	C684	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	C685	76669010	CAPACITOR, ELECTROLYTIC, 50V 1UF M
	C686	76092463	CAPACITOR, CERAMIC CHIP, 16V B 0.22UF K
	C687	76567104	CAPACITOR, PLASTIC FILM, 50V 0.1UF J
	C689	76092463	CAPACITOR, CERAMIC CHIP, 16V B 0.22UF K
	C690	76073005	CAPACITOR, ELECTROLYTIC, 6.3V 1000UF M
	C691	76666470	CAPACITOR, ELECTORLYTIC, 16V 47UF M
	C692	76666470	CAPACITOR, ELECTORLYTIC, 16V 47UF M
	C695	76665471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	C696	76665471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	C4073	76105220	CAPACITOR, CERAMIC CHIP, 50V CH 22PF J
	C8001	76668102	CAPACITOR, ELECTROLYTIC, 35V 1000UF M
	CA01	76092538	CAPACITOR, CERAMIC CHIP, 10V F 1UF Z
	CA02	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CA06	76105100	CAPACITOR, CERAMIC CHIP, 50V CH 10PF D
	CA07	76105090	CAPACITOR, CERAMIC CHIP, 50V CH 9PF C
	CA19	76092538	CAPACITOR, CERAMIC CHIP, 10V F 1UF Z
	CA70	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CA71	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CA91	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CC01	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC02	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC03	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	CC04	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	CC05	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC06	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC07	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	CC08	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	CC20	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC21	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC32	76105100	CAPACITOR, CERAMIC CHIP, 50V CH 10PF D
	CG01	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG02	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	CG03	76109471	CAPACITOR, CERAMIC CHIP, 50V B 470PF K
	CG04	76109221	CAPACITOR, CERAMIC CHIP, 50V B 220PF K

	CG05	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	CG06	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG07	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG09	76666220	CAPACITOR, ELECTROLYTIC, 16V 22UF M
	CG10	76666220	CAPACITOR, ELECTROLYTIC, 16V 22UF M
	CG11	76666220	CAPACITOR, ELECTROLYTIC, 16V 22UF M
	CG12	76666220	CAPACITOR, ELECTROLYTIC, 16V 22UF M
	CG13	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG14	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG15	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CG16	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CG17	76073089	CAPACITOR, ELECTROLYTIC, 50V 47UF M
	CG20	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG21	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	CG22	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG23	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	CG24	76669339	CAPACITOR, ELECTROLYTIC, 50V 3.3UF M
	CG25	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	CG26	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG27	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG28	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG29	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG30	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG31	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG32	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG33	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CG34	76092730	CAPACITOR, CERAMIC CHIP, 16V B 0.1UF K
	CG35	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG36	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG37	76109152	CAPACITOR, CERAMIC CHIP, 50V B 1500PF K
	CG38	76109471	CAPACITOR, CERAMIC CHIP, 50V B 470PF K
	CG39	76105560	CAPACITOR, CERAMIC CHIP, 50V CH 56PF J
	CG40	76105560	CAPACITOR, CERAMIC CHIP, 50V CH 56PF J
	CG41	76105560	CAPACITOR, CERAMIC CHIP, 50V CH 56PF J
	CG42	76105050	CAPACITOR, CERAMIC CHIP, 50V CH 5PF C
	CG43	76105010	CAPACITOR, CERAMIC CHIP, 50V CK 1PF C
	CG44	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG45	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG46	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG47	76666220	CAPACITOR, ELECTROLYTIC, 16V 22UF M
	CG48	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J

	CG49	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG50	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG51	76669100	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CG52	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CG53	76105101	CAPACITOR, CERAMIC CHIP, 50V CH 100PF J
	CG54	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG55	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG56	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CG57	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CS01	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS02	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS03	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS04	76797470	CAPACITOR, ELECTROLYTIC, 50V 47UF M
	CS05	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS06	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS07	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS08	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS09	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS10	76797470	CAPACITOR, ELECTROLYTIC, 50V 47UF M
	CS11	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS12	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS13	76766479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	CS14	76766479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	CS15	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS16	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS17	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS18	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS19	76797470	CAPACITOR, ELECTROLYTIC, 50V 47UF M
	CS20	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS21	76092726	CAPACITOR, CERAMIC CHIP, 10V B 2.2UF K
	CS22	76766479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	CS23	76766479	CAPACITOR, ELECTROLYTIC, 50V 4.7UF M
	CS24	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS25	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS26	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS27	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS28	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS31	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CS36	76073086	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CS37	76073086	CAPACITOR, ELECTROLYTIC, 50V 10UF M
	CS38	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K

	CS39	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CS40	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CS41	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CS42	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CS43	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CV51	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CV52	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CV54	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CV55	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CV56	76203100	CAPACITOR, ELECTORLYTIC, 16V 10UF M
	CV201	76794101	CAPACITOR, ELECTROLYTIC, 16V 100UF M
	CV221	76092621	CAPACITOR, CERAMIC CHIP, 10V B 1UF K
	CV222	76092621	CAPACITOR, CERAMIC CHIP, 10V B 1UF K
	CV223	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CV224	76762471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	CV231	76092621	CAPACITOR, CERAMIC CHIP, 10V B 1UF K
	CV232	76092621	CAPACITOR, CERAMIC CHIP, 10V B 1UF K
	CV233	76100104	CAPACITOR, CERAMIC CHIP, 25V F 0.1UF Z
	CV234	76762471	CAPACITOR, ELECTROLYTIC, 10V 470UF M
	D401	23362251	DIODE, SDS511(SOD-323)
	D608	23357765	DIODE, ZENER, MA8100-M
	D640	23362251	DIODE, SDS511(SOD-323)
	D641	23362251	DIODE, SDS511(SOD-323)
	D644	23362251	DIODE, SDS511(SOD-323)
	D645	23362251	DIODE, SDS511(SOD-323)
	D670	23362251	DIODE, SDS511(SOD-323)
	D671	23362251	DIODE, SDS511(SOD-323)
	D672	23362251	DIODE, SDS511(SOD-323)
	D673	23362251	DIODE, SDS511(SOD-323)
	D676	23362251	DIODE, SDS511(SOD-323)
	D677	23362251	DIODE, SDS511(SOD-323)
	D678	23362251	DIODE, SDS511(SOD-323)
	DA02	23357703	DIODE, 1SS355
	DA03	23357730	DIODE, ZENER, MA8033-L
	DA11	23357703	DIODE, 1SS355
	DE96	23357840	DIODE, ZENER, MTZJ6.2B
	DG01	23357742	DIODE, ZENER, MA8051-M
	DS01	23362140	DIODE, KDS160-RTK
	DS02	23362140	DIODE, KDS160-RTK
	DS03	23362251	DIODE, SDS511(SOD-323)
	DS04	23362251	DIODE, SDS511(SOD-323)

	DS05	23362251	DIODE, SDS511(SOD-323)
	DS06	23362251	DIODE, SDS511(SOD-323)
	DS10	23362251	DIODE, SDS511(SOD-323)
	DV06	23357762	DIODE, ZENER, MA8091-M
	DV20	23362042	DIODE, ZENER, UDZS6.8B
	DV21	23362042	DIODE, ZENER, UDZS6.8B
	GA56	23362042	DIODE, ZENER, UDZS6.8B
	GJ41	76000445	CHIP JUMPER, 1608TYPE
	GJ42	76000445	CHIP JUMPER, 1608TYPE
	GJ44	76000445	CHIP JUMPER, 1608TYPE
	GR09	23362042	DIODE, ZENER, UDZS6.8B
	GR17	23362042	DIODE, ZENER, UDZS6.8B
	GR18	23362042	DIODE, ZENER, UDZS6.8B
	GR25	23362042	DIODE, ZENER, UDZS6.8B
	GR31	76000445	CHIP JUMPER, 1608TYPE
	GR32	76000445	CHIP JUMPER, 1608TYPE
	GR33	76000445	CHIP JUMPER, 1608TYPE
	GR34	76000445	CHIP JUMPER, 1608TYPE
	GR35	76000445	CHIP JUMPER, 1608TYPE
	GR37	76000445	CHIP JUMPER, 1608TYPE
	GR48	23362042	DIODE, ZENER, UDZS6.8B
	GR603	76000445	CHIP JUMPER, 1608TYPE
	L101	23248385	COIL, CHOKE, TLN3278AA
	L102	76000445	CHIP JUMPER, 1608TYPE
	L103	76000445	CHIP JUMPER, 1608TYPE
	L104	76000445	CHIP JUMPER, 1608TYPE
	L191	75003112	CHIP BEAD INDUCTOR, 1.0KOHM 0.3A, BK1608 HS102-T
	LA90	76000445	CHIP JUMPER, 1608TYPE
	LA91	76000445	CHIP JUMPER, 1608TYPE
	LA92	76000445	CHIP JUMPER, 1608TYPE
	LA93	76000445	CHIP JUMPER, 1608TYPE
	LA94	76000445	CHIP JUMPER, 1608TYPE
	LC01	75003409	CHIP BEAD INDUCTOR, 120OHM 0.35A, BK1608 HM121-T
	LC02	75003409	CHIP BEAD INDUCTOR, 120OHM 0.35A, BK1608 HM121-T
	LC05	75003409	CHIP BEAD INDUCTOR, 120OHM 0.35A, BK1608 HM121-T
	LC06	75003409	CHIP BEAD INDUCTOR, 120OHM 0.35A, BK1608 HM121-T
	LG01	75003409	CHIP BEAD INDUCTOR, 120OHM 0.35A, BK1608 HM121-T
	LG02	75003409	CHIP BEAD INDUCTOR, 120OHM 0.35A, BK1608 HM121-T
	LV202	23103314	COIL, FILTER, TEM2028AH
	P601	23713755	PLUG, 4P 2.5MM G, B4B-EH-F1-TV4
	P803B	23713818	SOCKET, TWG-P19X-A1

	P810B	23713814	SOCKET, 127301109K2
	PA01A	23713944	CONNECTOR, B12B-PH-K-S(LF)
	PH01	75001989	CONNECTOR, MULTI 21P, CSS5021-9C01F
	PH02	75001989	CONNECTOR, MULTI 21P, CSS5021-9C01F
	PJ22A	75001960	CONNECTOR, 1MM PITCH B TO B, 137701150W3
	PL212	23713938	CONNECTOR, B5B-PH-K-S(LF)
	PV01	75004443	JACK PIN, **P+**S, LAP5000-2207F
	PV25B	75004070	CONNECTOR, B16B-CZHK-B-1(LF)(SN)(V)
	PV90	23713710	SOCKET, D-SUB 15P, KRD-8622
	Q101	23205347	TRANSISTOR, KTC4075Y/P
	Q400	23205346	TRANSISTOR, KTA2014Y/P
	Q401	23205346	TRANSISTOR, KTA2014Y/P
	Q402	23205347	TRANSISTOR, KTC4075Y/P
	Q407	23205346	TRANSISTOR, KTA2014Y/P
	Q408	23205346	TRANSISTOR, KTA2014Y/P
	Q409	23205347	TRANSISTOR, KTC4075Y/P
	Q410	23205347	TRANSISTOR, KTC4075Y/P
	Q630	23009942	IC, LA4525-E
	Q660	23205347	TRANSISTOR, KTC4075Y/P
	Q661	23205347	TRANSISTOR, KTC4075Y/P
	Q662	23205222	TRANSISTOR, SRA2204S (SOT-23)
	Q663	23205347	TRANSISTOR, KTC4075Y/P
	Q670	23085826	IC, TA8246AHQ(5)
	Q670B	23717240	SCREW, BITTB3X10SZN
	Q671	23205424	TRANSISTOR, KTC2875B/P
	Q672	23205424	TRANSISTOR, KTC2875B/P
	Q673	23205357	TRANSISTOR, KTA1504S Y/P
	Q675	23205424	TRANSISTOR, KTC2875B/P
	Q676	23205424	TRANSISTOR, KTC2875B/P
	Q682	23205222	TRANSISTOR, SRA2204S (SOT-23)
	Q4100	23085635	TRANSISTOR, 2SC3437-Y(TE85L, F)
	Q4101	23085635	TRANSISTOR, 2SC3437-Y(TE85L, F)
	Q4102	23085635	TRANSISTOR, 2SC3437-Y(TE85L, F)
	Q4103	23085635	TRANSISTOR, 2SC3437-Y(TE85L, F)
	QA01	75003460	IC, T5CB5-6K14(F, JZ)
	QA03	75001878	IC, TC7SH126FU(TE85L, F)
	QA72	23205347	TRANSISTOR, KTC4075Y/P
	QA73	23205347	TRANSISTOR, KTC4075Y/P
	QG01	75005874	IC, MSP4410K-QI-D7-100
	QG02	23085415	IC, BD4746G
	QG03	23205208	TRANSISTOR, SRC1204S(SOT-23)

	QG04	23205358	TRANSISTOR, KTC3875S Y/P
	QG05	23085576	IC, OP AMP, BA4558F
	QG06	23085576	IC, OP AMP, BA4558F
	QG07	23085576	IC, OP AMP, BA4558F
	QS01	23009613	IC, CD4052BNSR
	QS02	23009614	IC, CD4053BNSR
	QS03	23009614	IC, CD4053BNSR
	QS04	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QS05	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QS06	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QS07	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QS08	23205347	TRANSISTOR, KTC4075Y/P
	QS09	23205347	TRANSISTOR, KTC4075Y/P
	QS10	23205347	TRANSISTOR, KTC4075Y/P
	QS11	23205347	TRANSISTOR, KTC4075Y/P
	QS12	23205222	TRANSISTOR, SRA2204S (SOT-23)
	QS13	23205424	TRANSISTOR, KTC2875B/P
	QS14	23205424	TRANSISTOR, KTC2875B/P
	QS15	23205222	TRANSISTOR, SRA2204S (SOT-23)
	QS16	23205424	TRANSISTOR, KTC2875B/P
	QS17	23205424	TRANSISTOR, KTC2875B/P
	QS18	23205347	TRANSISTOR, KTC4075Y/P
	QS19	23205424	TRANSISTOR, KTC2875B/P
	QS20	23205325	TRANSISTOR, RN2404(F)
	QS24	23205424	TRANSISTOR, KTC2875B/P
	QS25	23205424	TRANSISTOR, KTC2875B/P
	QS26	23205222	TRANSISTOR, SRA2204S (SOT-23)
	QS30	23205424	TRANSISTOR, KTC2875B/P
	QS31	23205424	TRANSISTOR, KTC2875B/P
	QS32	23205424	TRANSISTOR, KTC2875B/P
	QS33	23205424	TRANSISTOR, KTC2875B/P
	QS34	23205424	TRANSISTOR, KTC2875B/P
	QV17	23085823	IC, MM1508XNRE
	QV18	23085823	IC, MM1508XNRE
	QV21	23205443	TRANSISTOR, 2SA1162-Y(F)
	QV22	23085635	TRANSISTOR, 2SC3437-Y(TE85L, F)
	QV23	23085635	TRANSISTOR, 2SC3437-Y(TE85L, F)
	QV24	23205347	TRANSISTOR, KTC4075Y/P
	QV25	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QV26	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QV30	23205346	TRANSISTOR, KTA2014Y/P

	QV31	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QV32	23205346	TRANSISTOR, KTA2014Y/P
	QV33	23205208	TRANSISTOR, SRC1204S(SOT-23)
	QV51	23205347	TRANSISTOR, KTC4075Y/P
	QV52	23205347	TRANSISTOR, KTC4075Y/P
	QV53	23205347	TRANSISTOR, KTC4075Y/P
	QV54	23205347	TRANSISTOR, KTC4075Y/P
	QV55	23205347	TRANSISTOR, KTC4075Y/P
	R103	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	R104	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R105	76011273	RESISTOR, CHIP, 1/20W 27K OHM J
	R114	76000445	CHIP JUMPER, 1608TYPE
	R167	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	R169	76000445	CHIP JUMPER, 1608TYPE
	R170	76011682	RESISTOR, CHIP, 1/20W 6.8K OHM J
	R459	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	R460	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	R461	76011750	RESISTOR, CHIP, 1/20W 75 OHM J
	R462	76011474	RESISTOR, CHIP, 1/20W 470K OHM J
	R463	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R464	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	R465	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R466	76011333	RESISTOR, CHIP, 1/20W 33K OHM J
	R601	76554470	RESISTOR, OXIDE METAL FILM, 2W 47 OHM J
	R634	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R635	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R636	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	R640	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R641	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R662	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	R666	76011563	RESISTOR, CHIP, 1/20W 56K OHM J
	R668	76871229	RESISTOR, CHIP, 1/8W 2.2 OHM J
	R669	76871229	RESISTOR, CHIP, 1/8W 2.2 OHM J
	R670	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	R671	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	R672	76011182	RESISTOR, CHIP, 1/20W 1.8K OHM J
	R673	76011182	RESISTOR, CHIP, 1/20W 1.8K OHM J
	R674	76011563	RESISTOR, CHIP, 1/20W 56K OHM J
	R678	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	R679	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	R680	76011103	RESISTOR, CHIP, 1/20W 10K OHM J

	R681	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R682	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	R683	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	R684	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	R685	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	R686	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R687	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	R688	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	R689	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R690	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	R691	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R692	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	R4073	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	R4074	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	R4075	76011750	RESISTOR, CHIP, 1/20W 75 OHM J
	R4076	76011474	RESISTOR, CHIP, 1/20W 470K OHM J
	R4077	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R4078	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	R4079	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R4080	76011333	RESISTOR, CHIP, 1/20W 33K OHM J
	R4082	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	R4083	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	R4084	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	R4085	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	R4100	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R4101	76011681	RESISTOR, CHIP, 1/20W 680 OHM J
	R4102	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	R4103	76011681	RESISTOR, CHIP, 1/20W 680 OHM J
	R4104	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R4105	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R4106	76011681	RESISTOR, CHIP, 1/20W 680 OHM J
	R4107	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	R4108	76011681	RESISTOR, CHIP, 1/20W 680 OHM J
	R4109	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	R6601	76011223	RESISTOR, CHIP, 1/20W 22K OHM J
	R6602	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	R6603	76011104	RESISTOR, CHIP, 1/20W 100K OHM J
	R6604	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA01	76011331	RESISTOR, CHIP, 1/20W 330 OHM J
	RA02	76011105	RESISTOR, CHIP, 1/20W 1M OHM J
	RA09	76011102	RESISTOR, CHIP, 1/20W 1K OHM J

	RA10	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA11	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA12	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA13	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA14	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA15	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA17	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA20	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA21	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA22	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA23	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA24	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA25	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA26	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA28	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA29	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA32	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA33	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA35	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA36	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA39	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA44	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA45	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA48	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA49	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA50	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA52	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA53	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA54	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA55	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA57	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA58	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA59	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA60	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA61	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA62	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA63	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA64	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA66	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RA70	76011471	RESISTOR, CHIP, 1/20W 470 OHM J
	RA81	76011102	RESISTOR, CHIP, 1/20W 1K OHM J

	RA82	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RA83	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA100	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA101	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA102	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA103	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA104	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA105	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA106	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RA108	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA112	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA116	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA117	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA118	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RA120	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RA126	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RB32	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RB33	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RB54	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RB55	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RB57	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RB58	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RB59	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RB60	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RB61	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RB62	76011103	RESISTOR, CHIP, 1/20W 10K OHM J
	RC01	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RC02	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RC03	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RC04	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RC20	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RC21	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RC24	76011330	RESISTOR, CHIP, 1/20W 33 OHM J
	RG01	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG02	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG04	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	RG06	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG07	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG09	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG010	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG11	76011101	RESISTOR, CHIP, 1/20W 100 OHM J

	RG12	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG13	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	RG14	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	RG15	76011183	RESISTOR, CHIP, 1/20W 18K OHM J
	RG16	76011183	RESISTOR, CHIP, 1/20W 18K OHM J
	RG17	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RG18	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RG19	76011332	RESISTOR, CHIP, 1/20W 3.3K OHM J
	RG23	76011332	RESISTOR, CHIP, 1/20W 3.3K OHM J
	RG24	76011683	RESISTOR, CHIP, 1/20W 68K OHM J
	RG25	76011222	RESISTOR, CHIP, 1/20W 2.2K OHM J
	RG26	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG27	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG28	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG29	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG30	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG31	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG32	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG33	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG34	76011102	RESISTOR, CHIP, 1/20W 1K OHM J
	RG35	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG40	76011183	RESISTOR, CHIP, 1/20W 18K OHM J
	RG41	76011183	RESISTOR, CHIP, 1/20W 18K OHM J
	RG42	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	RG43	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	RG44	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RG45	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RG46	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG47	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG48	76011393	RESISTOR, CHIP, 1/20W 39K OHM J
	RG49	76011472	RESISTOR, CHIP, 1/20W 4.7K OHM J
	RG50	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RG51	76011473	RESISTOR, CHIP, 1/20W 47K OHM J
	RR01	76871750	RESISTOR, CHIP, 1/8W 75 OHM J
	RR02	76871750	RESISTOR, CHIP, 1/8W 75 OHM J

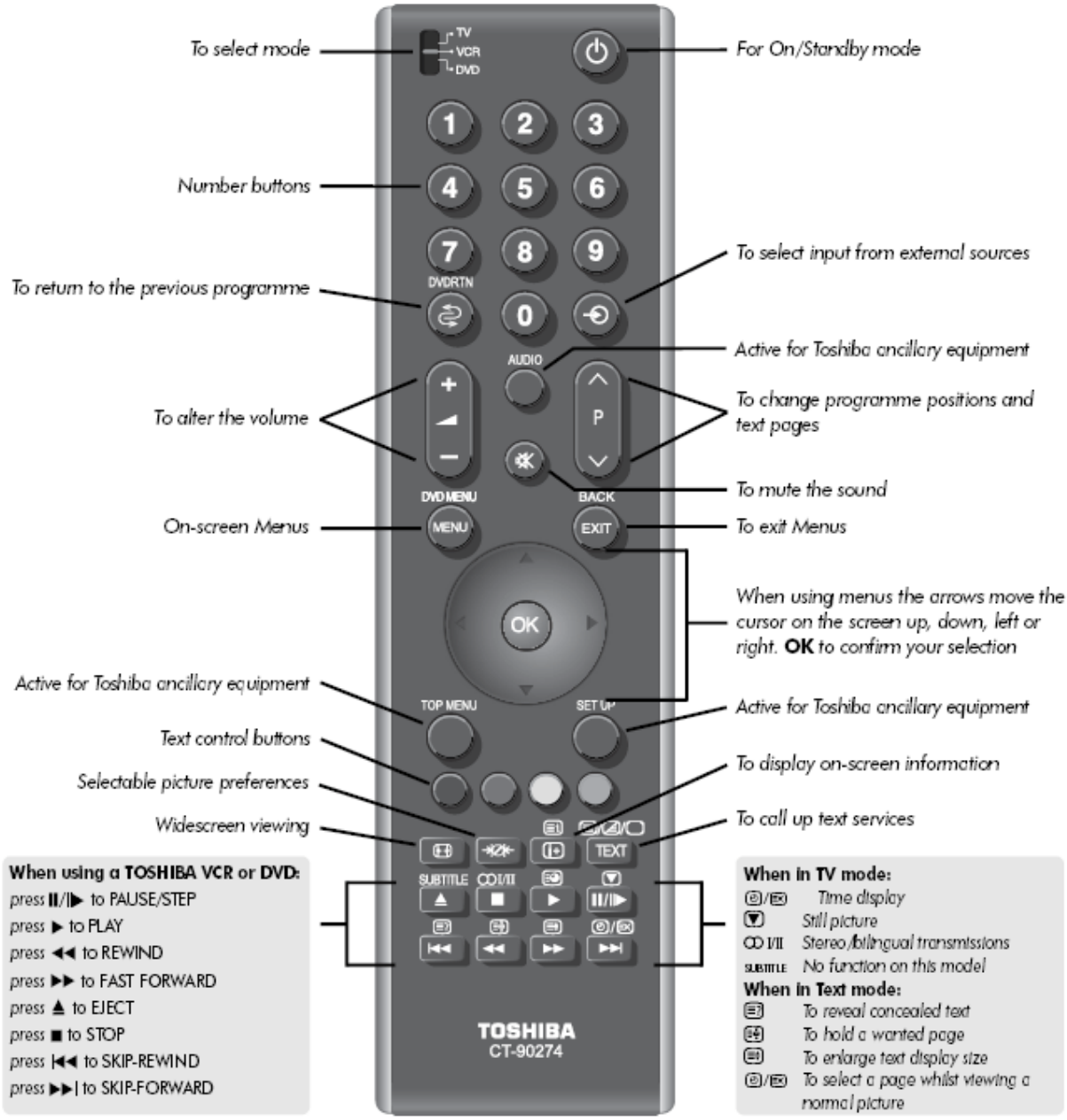
U03B FRONT_AV (PE0250)

	Location	Parts No.	Description
*	U03B	75005869	PC BOARD ASSY, PE0250A2, FRONT_AV
	C604	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	C605	76109103	CAPACITOR, CERAMIC CHIP, 50V B 0.01UF K
	CC11	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC12	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC13	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	CC14	76109102	CAPACITOR, CERAMIC CHIP, 50V B 1000PF K
	P661	23365444	EARPHONE JACK, D3.5
	PV25A	75004070	CONNECTOR, B16B-CZHK-B-1(LF)(SN)(V)
	PV60	23365275	PHONO JACK, 3P V-L-R, YKC21
	R696	76871221	RESISTOR, CHIP, 1/8W 220 OHM J
	R697	76871221	RESISTOR, CHIP, 1/8W 220 OHM J
	R698	76871221	RESISTOR, CHIP, 1/8W 220 OHM J
	R699	76871221	RESISTOR, CHIP, 1/8W 220 OHM J
	RC11	76011821	RESISTOR, CHIP, 1/20W 820 OHM J
	RC12	76011821	RESISTOR, CHIP, 1/20W 820 OHM J
	RV10	76000445	CHIP JUMPER, 1608TYPE
	RV123	76872750	RESISTOR, CHIP, 1/16W 75 OHM J
	RV129	76011101	RESISTOR, CHIP, 1/20W 100 OHM J
	RV270	76000445	CHIP JUMPER, 1608TYPE

FUNCTION AND OPERATION

The Remote Control

Simple at-a-glance reference of your remote control.

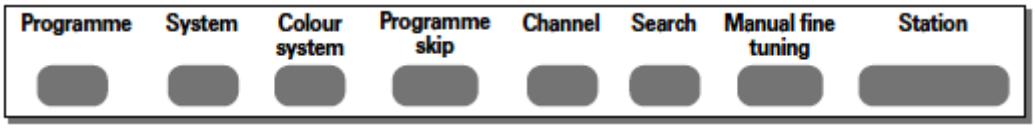


FUNCTION AND OPERATION

Manual Tune

The television can be tuned-in manually using **Manual tuning**. For example: if the television cannot be connected to a media recorder/decoder with a SCART lead or to tune-in a station on another **System**.

Use ◀ and ▶ to move across the screen and select any of these Manual Tune options.



Programme : **The number to be pressed on the remote control.**

System : **Specific to certain areas.**

Colour system : **Factory set to Auto, should only be changed if problems are experienced, i.e. NTSC input from external source.**

Programme skip : **means nothing has been stored or the facility to skip the channel is ON.**

Channel : **The channel number on which a station is being broadcast.**

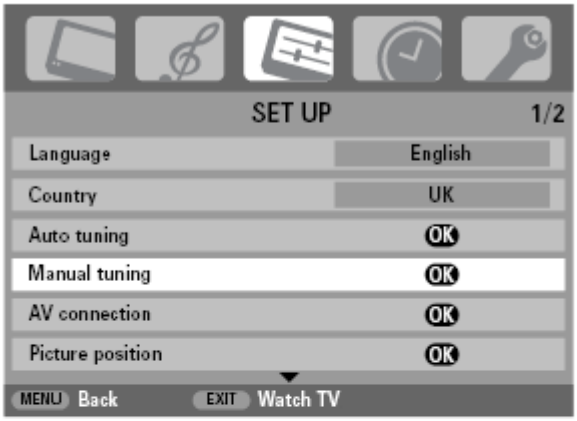
Search : **Search up and down for a signal.**

Manual fine tuning : **Only used if interference/weak signal is experienced.**

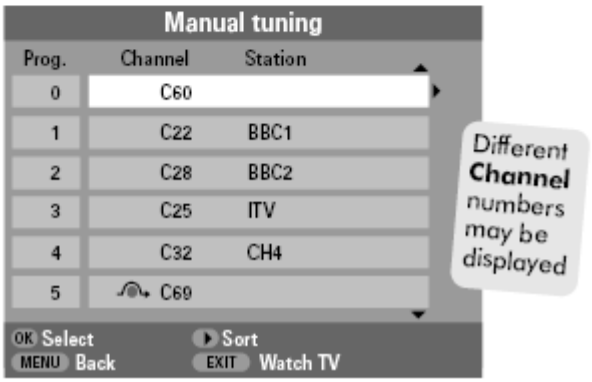
Station : **Station identification. Use the ▲ or ▼ and ◀ or ▶ buttons to enter up to seven characters.**

To allocate a programme position on the television for a decoder and media recorder: turn the decoder on, insert a pre-recorded film in the media recorder and press PLAY, then manually tune.

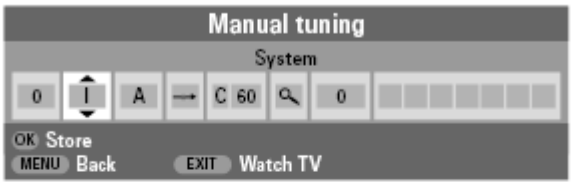
1 Press **MENU** and using ◄ or ► select the **SET UP** menu, with ▼ highlight **Manual tuning**, press **OK** to select.



2 Use ▲ or ▼ to highlight the programme position required e.g. we suggest ***Prog. 0*** for a media recorder.



3 Press **OK** to select. If the programme is skipped, **Programme skip** must be removed before storing.



4 Press ▶ to select **System** and use ▲ or ▼ to change if required.

5 Then press ▶ to select **Search**.

6 Press ▲ or ▼ to begin the search. The search symbol will flash.

7 Each signal will show on the television, if it is not your media recorder, press ▲ or ▼ again to restart the search.

8 When your media recorder signal is found, press ▶ to move along to **Station**. With ▲, ▼, ◀ and ▶ put in the required characters, e.g. **VCR**.

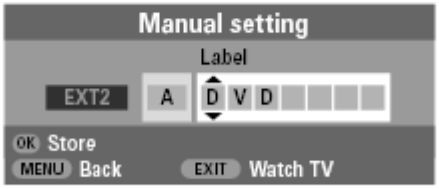
9 Press **OK** to store.

10 Repeat for each ***programme position*** you want to tune or, press **MENU** to return to the list of channels and select the next number to tune.

11 Press **EXIT** when you have finished.

12 To name external equipment, e.g. DVD on EXT2, press ⊕ to select ⊕**2**, then select **Manual setting** from the **SET UP** menu.

13 Press ▶ to select **Label** then using ▲, ▼, ◀ and ▶ put in the required characters.



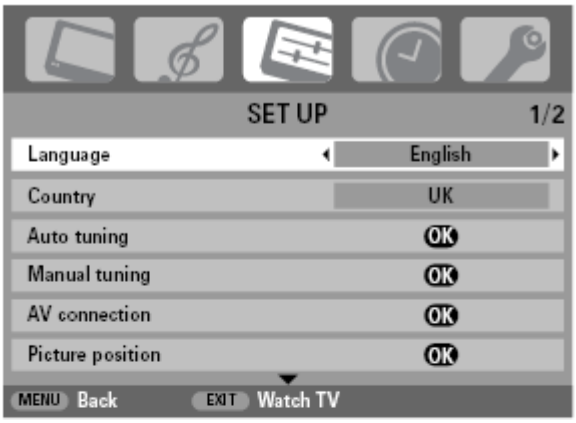
PLEASE NOTE This television has direct channel entry if the channel numbers are known. Select the **Manual tuning** screen in ***Step 3***. Enter the **Programme number**, the **System**, then the **Channel** number. Press **OK** to store.

FUNCTION AND OPERATION

Auto Tune

Using Auto Tuning

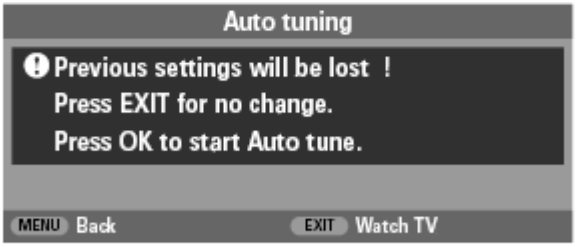
1 To set up the television using **Auto tuning**, press **MENU** and use ◀ or ▶ to select the **SET UP** menu.



2 Press ▼ to highlight **Language** and ◀ or ▶ to select.

3 Using ▼ highlight **Country**, then ◀ or ▶ to select. The television will now tune the stations for your country.

4 Press ▼ to highlight **Auto tuning**, then press **OK**.



5 To start **Auto tuning** press **OK**.

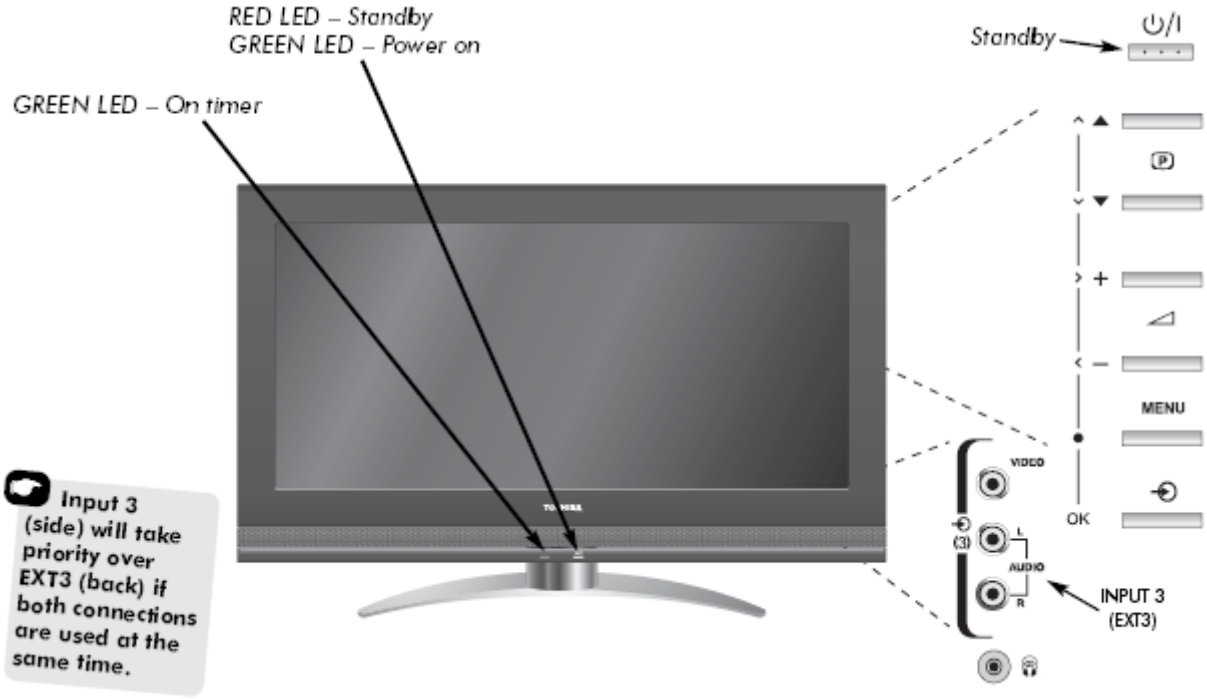
You must allow the television to complete the search.

When the search is complete the television will automatically select programme position 1. This may not be a clear picture, so the station order can be changed using **Manual tuning**.

FUNCTION AND OPERATION

Control and Input Connection

A wide variety of external equipment can be connected to the input sockets on the side of the television.
Whilst all the necessary adjustments and controls for the television are made using the remote control, the buttons on the television may be used for some functions.



Switching On

If the RED LED is unlit check that the mains plug is connected to the power supply. If the picture does not appear press ⏻ on the remote control, it may take a few moments.

To put the television into Standby press ⏻ on the remote control. To view the television press ⏻ again. The picture may take a few seconds to appear.

To set up the television you will now need to use the on-screen menus. Press the **MENU** button on the remote control to see the menus.

The menu bar at the top of the screens will show five different topics shown in symbols. As each symbol is selected by pressing ◀ or ▶ on the navigation ring on the remote control, its respective options will appear below.

To use the options, press ▼ on the navigation ring to move down through them and **OK**, ◀ or ▶ to select the required choice. Follow the on-screen instructions. The functions of each menu are described in detail throughout the manual.

Using the Control and Connection

To alter the volume press – ◿ +.

To alter the programme position press ▼ Ⓟ ▲.

Press **MENU** and ❮, ❯, ^ or ⌄ to control the sound and picture options.

Press **MENU** to finish.

When connecting sound equipment to **EXT3**, connect the audio output of the equipment to the phono sockets on the television.

To select the Input, press ⊕ until the display shows **EXT3**. The television will automatically sense the type of signal.

Please always refer to the owner's manual of the equipment to be connected for full details.

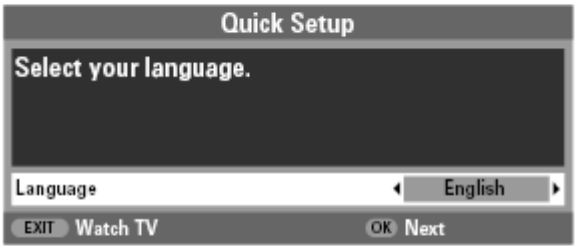
Please note: Inserting the headphone plug will mute the sound from all speakers.

FUNCTION AND OPERATION

Tuning the Television Using Quick Setup

Before switching on the television put your decoder and media recorder to **Standby** if they are connected.
To set up the television use the buttons on the remote control.

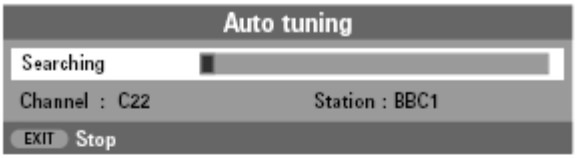
1. Connect the television to the mains power and press the ⏻ button. The **Quick Setup** screen will appear.



2. Using ◀ or ▶ select your **language**, then press **OK**.

3. Then press ◀ or ▶ to select your **country** and press **OK**.

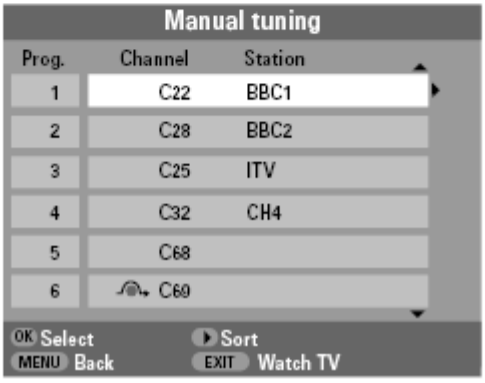
4 To start **Auto tuning** press **OK**.



The search will begin for all available stations. The slide bar will move along the line as the search progresses.

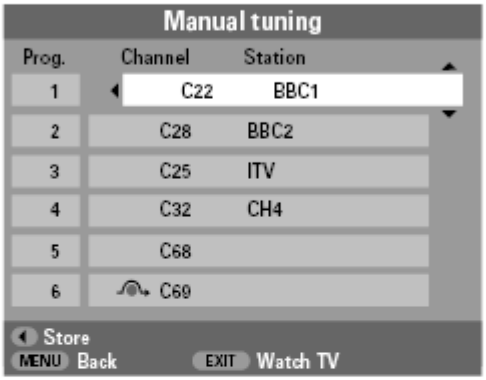
You must allow the television to complete the search.

When the search is complete the television will automatically select programme position 1. This may not be a clear picture or the signal may be weak, so the station order can be changed using **Manual tuning** which will appear on the screen.



5 With the list of stations now showing use ▲ or ▼ to highlight the station you want to *move* and press ▶.

The selected station will be moved to the right of the screen.



6 Use ▲ or ▼ to move through the list to your *preferred* position. As you do so the other stations will move to make room.

7 Press ▶ to store your move.

Repeat as necessary, then press **EXIT**.

If the television cannot be connected to a media recorder/decoder with a SCART lead or if a station on another ***system*** is required, use **Manual tuning** to allocate a programme position.

SPECIFICATION

Broadcast systems/channels

PAL-I	UHF	UK21-UK69
PAL-B/G	UHF	E21-E69
	VHF	E2-E12, S1-S41
SECAM-L	UHF	F21-F69
	VHF	F1-F10, B-Q
SECAM-D/K	UHF	R21-R69
	VHF	R1-R12

Video Input PAL, SECAM, NTSC 3.58/4.43

External connections

EXT1	Input	21-pin SCART	RGB, A/V
EXT2	Input	21-pin SCART	A/V, S-video
EXT3	Input	Phono jacks	Y, P_B/C_B, P_R/C_R
		Phono jacks	A/V
EXT3	Input (Side)	Phono jack	Video
		Phono jacks	Audio L + R
HDMI 1/2	Input	HDMI™ (1080p, LIP SYNC)	
PC	Input	Mini D-sub 15-pin	Analog RGB signal
PC/HDMI1 Audio		Phono jacks	Audio L + R
Output to Active Super Woofer		Phono jack	
Fixed Audio Output		Phono jacks	Audio L + R

Stereo		Nicam 2 carrier system	
Visible Screen Size (approx.)	Model	32 37 42	80cm 94cm 107cm
Display		16:9	
Sound output (at 10% distortion)		Main	10W + 10W
Power consumption as specified in EN60107-1 : 1997	Model	32 37 42	146W 183W 233W
Standby (approx.)	Model	32 37 42	<1W <1W <1W
Dimensions (approx.)	Model	32 37 42	60cm (H) 80cm (W) 29cm (D) 67cm (H) 92cm (W) 29cm (D) 73cm (H) 103cm (W) 34cm (D)
		(Height dimension includes foot stand)	
Weight (approx.)	Model	32 37 42	18kg 22kg 27.5kg
Headphone socket		3.5mm stereo	
Accessories		Remote control 2 batteries (AAA, IEC R03 1.5V)	